

Catalog Home

To Apply:

Contact the Office of Admissions

Toll free 1-800-929-4778

or visit our website at WWW.SRU.EDU

Slippery Rock, Pennsylvania 16057-1326

1-800-SRU-9111

Rock Solid Education

Produced under the supervision of Slippery Rock University's division of Academic and Student Affairs. This catalog contains requirements, regulations, and descriptions that are subject to change at any time. Slippery Rock University specifically reserves the right and authority to alter and amend any and all requirements contained herein. The educational policies and procedures are reviewed and changed continually in keeping with the educational mission of the university. Consequently, this document is intended to be used only as an informational guide. Students are responsible for keeping informed of official policies and regulations and for meeting all appropriate requirements. Slippery Rock University of Pennsylvania is a member of Pennsylvania's State System of Higher Education

Respect for Individuals in the Community Statement

The statement states:

"Slippery Rock University provides an environment that respects, encourages, and promotes the talents and contributions of all. Slippery Rock University values a community with a shared sense of purpose, where people demonstrate mutual respect and appreciation. Slippery Rock University values diversity that honors and includes all persons regardless of age, creed, disability, ethnic heritage, gender, gender identity, race, religion, sexual orientation, or socioeconomic status in academic and extracurricular endeavor, in the working environment, and in the daily life of the university community."

Academic Programs

Slippery Rock University

Slippery Rock University

College of Business

Office: 305 Eisenberg Building

Phone: 724-738-2008

Email: cbiss@sru.edu

Dean

Lawrence Shao

Assistant to the Dean

Larry McCarthy

Administrative Assistant

Leigh McGuirk

Secretary

Deborah White

Departments

Communication

Hospitality, Event Management and Tourism

Military Science

Safety Management

School of Business

Sport Management

Slippery Rock University's College of Business is comprised of six academic departments: communication, military science, hospitality, event management and tourism, safety management, sport management and the School of Business which includes the programs of accounting, economics, finance, healthcare administration and management, information systems, management, and marketing.

Information and information processing are becoming more accessible and more important in daily life. Businesses rely on information and on individuals who can effectively process and analyze information. The university enhances opportunities for students to keep pace with a continually changing society. The information, communication, and business administration programs are thus united as one college to provide focus and unity for students.

Students majoring in the College of Business must satisfy the university's liberal studies program requirements in addition to meeting specific major degree requirements. Study in the liberal arts, which contributes to life-long happiness and productivity, assists in developing skills in such areas as oral and written communication, problem-solving, critical thinking and mathematics. With specific departmental degree requirements, students who major in the College of Business are assured of both breadth and depth of knowledge. The social sciences provide students with a disciplined approach to both the theories and methodologies that will assist them in understanding society and culture. The curriculum is committed to creating a learning environment of self-awareness and a sense of perpetual growth and development. Disciplines include: communication, military science, hospitality, event management and tourism, safety management, sport management, and business.

The College of Business also combines popular and rapidly changing fields of study, supported with current technology and facilities for such areas as accounting, finance, healthcare administration, human resource management, information systems, marketing, and management in the School of Business, military science, communication, journalism, public relations and broadcasting, computer science, information systems, and multimedia technology.

Students who have inquiries regarding programs in the College of Business should contact specific departmental chairpersons or the office of the dean of the college.

Programs

Government Contracting Assistance Center (GCAC)

Government Contracting Assistance Center (GCAC)

Office: 006 Eisenberg

Phone: 724-738-2346

Contracting Specialist

Renee Decker

The Government Contracting Assistance Center (GCAC), is a unique segment of the College of Business. GCAC is an economic development outreach program promoting economic growth in our region through assisting businesses to compete for federal, state, and local government contract and subcontract awards.

The GCAC is a full service Procurement Technical Assistance Center (PTAC). Services to area businesses include assisting with federal, state, and local government registrations and certifications, identifying bid opportunities and assisting with bid preparation and submittal. GCAC also provides training through regularly scheduled procurement fairs, seminars and webinars to educate companies on government contracting procedures and eBusiness initiatives.

Accounting, Economics & Finance

Accounting, Economics and Finance

Bachelor of Science in Business Administration – BSBA, with majors in Accounting, Economics and Finance

Master of Accountancy - MAcc

Office: 110 Eisenberg Classroom Building

Phone: 724-738-4865

Email: michele.orr@sru.edu

Department Chair

Melanie Anderson

Department Secretary

Michele Orr

Faculty

Melanie Anderson, Thuy Bui, Jeffrey Forrest, Benjamas Jirasakuldech, Yi Li, Larry McCarthy, Sunita Mondal, Theresa Phipps, Edward Scott, Pavani Tallapally, Jesus Valencia, Xintong Wang

The Department of Accounting, Economics and Finance offers a Bachelor of Science in Business Administration (BSBA) with majors in Accounting, Economics and Finance.

The Department offers a Master of Accountancy (MAcc) degree. Students can complete this graduate degree in one year, or can select the 4 + 1 option as an accounting undergraduate to complete the BSBA/MAcc in 5 years.

Our Vision

We will provide transformational education experiences that equip students to be lifelong learners who engage the world as knowledgeable, principle centered and responsible global citizens.

Our Mission

The School of Business at Slippery Rock University prepares students to be career ready emerging leaders by developing competencies for success professionally and personally. Our academic programs are student centered with high levels of engagement in an environment where faculty scholarship enhances student learning. The School of Business also serves as a catalyst for regional economic development through outreach and partnerships.

Accreditation

The BSBA program is accredited by the Accreditation Council for Business Schools and Programs - ACBSP and is a candidate for the Association to Advance Collegiate Schools of Business - AACSB accreditation.

Accounting (BSBA)

School of Business

The Accounting program at Slippery Rock University prepares students for success in the challenging and rewarding field of accounting. The integrated curriculum focuses on the development of students' business and accounting skills and knowledge while enhancing their communication, teamwork, critical thinking, and problem solving skills as well as technological proficiency. Emphasis is placed on student learning through research and practical application as students prepare for the Uniform Certified Public Accountant Examination and careers in public accounting, government, and private industries. All candidates completing this program are eligible to sit for the Uniformed Certified Public Accountant Examination. Student professional growth is encouraged and enhanced through participation in the Student Accounting Society and the internship program in the School of Business.

In the classroom, accounting students are introduced to a variety of software programs used by accounting professionals that provide realistic application of accounting practices and procedures. This state-of-the-art learning center engages students in the learning process as they master accounting concepts, principles, and related procedures in an environment that simulates the workplace. The School of Business' accounting program is a step above the ordinary; it equips future accounting professionals with a unique set of marketable skills that sets them apart from their peers in the workplace.

Requirements for the Major - Credits: 72

Accounting Major - Credits: 21

- ACCT 308 - Federal Individual Income Tax Credits: 3
- ACCT 313 - Intermediate Accounting I Credits: 3
- ACCT 314 - Intermediate Accounting II Credits: 3
- ACCT 315 - Intermediate Accounting III Credits: 3
- ACCT 230 - Accounting Information Systems Credits: 3
- ACCT 411 - Auditing Theory and Practice Credits: 3
- ACCT 413 - Advanced Accounting Credits: 3

- Choose two Accounting Electives from the list below - Credits: 6

- ACCT 311 - Federal Corporate and Transfer Taxes Credits: 3
- ACCT 320 - Forensic Accounting Credits: 3
- ACCT 324 - Cost Accounting II Credits: 3
- ACCT 341 - Legal Environment of Business II Credits: 3
- ACCT 412 - Accounting Seminar Credits: 3
- ACCT 419 - Auditing Systems Credits: 3
- ACCT 423 - Advanced Accounting II Credits: 3
- ACCT 429 - Accounting Data Analytics Credits: 3

- ACCT 450 - Internship Credits: 1 to 12 Credits: 3

Required Computer Science Course - Credits: 3

- CPSC 210 - Productivity Software Credits: 3
OR
- MIS 210 - Productivity Software Credits: 3

Business Administration Core - Credits: 42

- ACCT 209 - Financial Accounting Credits: 3
- ACCT 310 - Cost Accounting Credits: 3 (Accounting Majors)
OR
- ACCT 322 - Business Analysis and Decision Making Credits: 3 (Non-Accounting Majors)
- BUSA 303 - Issues in Global Business Credits: 3
OR
- MRKT 303 - Issues in Global Business Credits: 3
- BUSA 340 - Legal Environment of Business I Credits: 3
- ECON 201 - Principles of Macroeconomics Credits: 3
- ECON 202 - Principles of Microeconomics Credits: 3
- ECON 219 - Business Statistics Credits: 3
OR
- MGMT 219 - Business Statistics Credits: 3
- ECON 319 - Business Analytics II Credits: 3
OR
- MGMT 319 - Business Analytics II Credits: 3
- FIN 320 - Managerial Finance Credits: 3
- MGMT 320 - Operations Management I Credits: 3
- MGMT 351 - Organizational Behavior Credits: 3
- MGMT 458 - Business Capstone Credits: 3
- MIS 265 - Management Information Systems Credits: 3
- MRKT 330 - Principles of Marketing Credits: 3

Certificate in Accounting

School of Business

A Certificate in Accounting permits students interested in a career as a Certified Public Accountant who have a non-accounting bachelor's degree or are currently enrolled in a non-accounting bachelor degree program, to pursue a program of study that will prepare them for the Uniform Certified Public Accountant Examination. Students are

required to have 150 hours of college credit to receive CPA certification and licensure in the state of Pennsylvania. All candidates completing this program are eligible to sit for the Uniformed Certified Public Accountant Examination.

Program Requirement: The Certificate in Accounting will be awarded upon successful completion of approved coursework with a 2.5 GPA for all courses taken at SRU. Students must complete a minimum of 30 hours of coursework at SRU.

CPA exam candidates will design a program of study to include the following courses:

Requirements for Certificate in Accounting - Credits: 48

Related Business Courses - Credits: 15

- CPSC 210 - Productivity Software Credits: 3
- ECON 219 - Business Statistics Credits: 3
- ECON 202 - Principles of Microeconomics Credits: 3
- FIN 320 - Managerial Finance Credits: 3
- MGMT 351 - Organizational Behavior Credits: 3

Accounting Courses - Credits: 33

Required Accounting Courses:

- ACCT 209 - Financial Accounting Credits: 3
- ACCT 210 - Managerial Accounting Credits: 3
- ACCT 308 - Federal Individual Income Tax Credits: 3
- ACCT 310 - Cost Accounting Credits: 3
- ACCT 313 - Intermediate Accounting I Credits: 3
- ACCT 314 - Intermediate Accounting II Credits: 3
- ACCT 230 - Accounting Information Systems Credits: 3
- BUSA 340 - Legal Environment of Business I Credits: 3
- ACCT 411 - Auditing Theory and Practice Credits: 3
- ACCT 413 - Advanced Accounting Credits: 3

Approved Elective

Choose one 300/400 level Accounting or Finance course with departmental approval.

Economics (BSBA)

School of Business

A student pursuing a bachelor of science in business administration degree can choose to major in economics. Economics studies how markets allocate resources to promote our personal and collective well-being. It helps students develop a framework for understanding how events affect different markets for goods and services and how the

aggregate functioning of the markets determine output, employment and prices. Students are also able to evaluate government policies designed to stabilize the economy, redistribute income, regulate industries and foster international trade.

Economics majors are encouraged to join both Omicron Delta Epsilon, an international honor society in economics, and the Economics, Finance and International Business Club. Both sponsor a variety of professional and social activities which allow students to enhance their out-of-classroom experience, develop a sense of professional common bond and group support among themselves and create a network with off-campus professionals.

All majors are encouraged to do an internship in the summer semester between their junior and senior year. Students may seek placements in their individual area of interest. Internships are available in the areas of banking, insurance, financial advising, financial services, and manufacturing and government. In today's market, employers often offer internships to attract qualified students to their firms.

Economics offers a broader view of the economy than other business related majors. The emphasis is on developing critical thinking and problem solving skills. Graduates are well prepared for careers in the public and private sector and receive an excellent background for furthering their education at graduate or professional schools.

Requirements for the Major - Credits: 63

Required Major Courses - Credits: 18

- ECON 301 - Macroeconomic Analysis Credits: 3
- ECON 302 - Microeconomic Analysis Credits: 3
- ECON 304 - Money and Banking Credits: 3
- OR
- FIN 323 - Financial Markets and Institutions Credits: 3
- ECON 326 - International Economics Credits: 3

And 2 Elective Courses

Elective courses are selected from any 300-400 level economic courses (excluding Internship).

Required Computer Science Course - Credits: 3

- CPSC 210 - Productivity Software Credits: 3
- OR
- MIS 210 - Productivity Software Credits: 3

Business Administration Core - Credits: 42

- ACCT 209 - Financial Accounting Credits: 3
- ACCT 310 - Cost Accounting Credits: 3 (Accounting Majors)
- OR
- ACCT 322 - Business Analysis and Decision Making Credits: 3 (Non-Accounting Majors)
- BUSA 303 - Issues in Global Business Credits: 3

- OR
- MRKT 303 - Issues in Global Business Credits: 3

- BUSA 340 - Legal Environment of Business I Credits: 3
- ECON 201 - Principles of Macroeconomics Credits: 3
- ECON 202 - Principles of Microeconomics Credits: 3

- ECON 219 - Business Statistics Credits: 3
- OR
- MGMT 219 - Business Statistics Credits: 3

- ECON 319 - Business Analytics II Credits: 3
- OR
- MGMT 319 - Business Analytics II Credits: 3

- FIN 320 - Managerial Finance Credits: 3
- MGMT 320 - Operations Management I Credits: 3
- MGMT 351 - Organizational Behavior Credits: 3
- MGMT 458 - Business Capstone Credits: 3
- MIS 265 - Management Information Systems Credits: 3
- MRKT 330 - Principles of Marketing Credits: 3

Finance (BSBA)

School of Business

A student pursuing a bachelor of science in business administration degree can choose to major in finance. Finance teaches students about the financial operations and financial management of firms. Students learn about the financial records of firms, the character and appraisal of corporate securities, and financial techniques used in all phases of the discipline. In addition, students may choose elective subjects which permit them to aim at a particular segment of finance, such as corporate finance, commercial and investment banking, and financial planning. Certain courses are offered each semester; others are cycled every other semester or every other year to provide the greatest diversification possible.

Finance majors are encouraged to join the Economics, Finance, and International Business Club. This organizations sponsor a variety of professional and social activities for students such as informal gatherings among students, invited speakers, tours and travel.

All majors are encouraged to do an internship in the summer semester between their junior and senior year. Students may seek placements in their individual area of interest. Internships are available in the areas of banking, insurance, financial advising, financial services, manufacturing and government. In today's market, employers often offer internships to attract qualified students to their firms.

Finance majors are particularly well suited for positions in the private or public sector that require knowledge of financial institutions and financial operations such as banks, insurance companies and real estate firms. Students are also well prepared for graduate and professional schools.

Requirements for the Major - Credits: 63

Required Major Courses - Credits: 12

- FIN 321 - Investments Credits: 3
- FIN 323 - Financial Markets and Institutions Credits: 3
- FIN 326 - Intermediate Corporate Finance Credits: 3
- FIN 427 - International Financial Management Credits: 3

Two Elective Courses - Credits: 6

2 courses from 300/400 Finance electives **OR** 1 course from 300/400 Finance electives and 1 course from:

- ECON 301 - Macroeconomic Analysis Credits: 3
- ECON 302 - Microeconomic Analysis Credits: 3
- ECON 304 - Money and Banking Credits: 3
- ECON 318 - Intermediate Statistical Analysis Credits: 3

Required Computer Science Course - Credits: 3

- CPSC 210 - Productivity Software Credits: 3
OR
- MIS 210 - Productivity Software Credits: 3

Business Administration Core - Credits: 42

- ACCT 209 - Financial Accounting Credits: 3
- ACCT 310 - Cost Accounting Credits: 3 (Accounting Majors)
OR
- ACCT 322 - Business Analysis and Decision Making Credits: 3 (Non-Accounting Majors)

- BUSA 303 - Issues in Global Business Credits: 3
OR
- MRKT 303 - Issues in Global Business Credits: 3

- BUSA 340 - Legal Environment of Business I Credits: 3
- ECON 201 - Principles of Macroeconomics Credits: 3
- ECON 202 - Principles of Microeconomics Credits: 3

- ECON 219 - Business Statistics Credits: 3
OR
- MGMT 219 - Business Statistics Credits: 3

- ECON 319 - Business Analytics II Credits: 3
OR
- MGMT 319 - Business Analytics II Credits: 3

- FIN 320 - Managerial Finance Credits: 3

- MGMT 320 - Operations Management I Credits: 3
- MGMT 351 - Organizational Behavior Credits: 3
- MGMT 458 - Business Capstone Credits: 3
- MIS 265 - Management Information Systems Credits: 3
- MRKT 330 - Principles of Marketing Credits: 3

Minor in Accounting (for ACCT, ECON, FIN, HCAM, IS, MGMT, AND MRKT students only)

School of Business

Total credits: 24

Required Courses - Credits: 21

- ACCT 310 - Cost Accounting Credits: 3
- ACCT 313 - Intermediate Accounting I Credits: 3
- ACCT 314 - Intermediate Accounting II Credits: 3
- FIN 320 - Managerial Finance Credits: 3
- MGMT 320 - Operations Management I Credits: 3
- MGMT 351 - Organizational Behavior Credits: 3
- OR
- HCAM 360 - Healthcare Organizational Dynamics Credits: 3
- MRKT 330 - Principles of Marketing Credits: 3

Elective Courses - Credits: 3

Choose one of the following:

- ACCT 308 - Federal Individual Income Tax Credits: 3
- ACCT 230 - Accounting Information Systems Credits: 3
- ACCT 411 - Auditing Theory and Practice Credits: 3

Minor in Economics (BSBA Majors Only)

School of Business

Total credits: 24

Students pursuing a minor in economics must maintain a minimum GPA of 2.000 in all business courses taken at Slippery Rock University.

Required Economics Courses - Credits: 12

- ECON 301 - Macroeconomic Analysis Credits: 3
 - ECON 302 - Microeconomic Analysis Credits: 3
- AND
- 6 credits of any 300/400 level Economics courses

Required Business Courses - Credits: 12

- FIN 320 - Managerial Finance Credits: 3
- MGMT 320 - Operations Management I Credits: 3
- MGMT 351 - Organizational Behavior Credits: 3
- MRKT 330 - Principles of Marketing Credits: 3

Minor in Economics (Non BSBA Majors)

School of Business

Credits: 18

A minor in economics offers students outside of the business program to gain a certification for proficiency in economics. Economics as a major has become more popular in the last decade and statistics report that majors enjoy earnings advantages over many other disciplines. Adding a minor will enable our students to participate in the robust market for economics. In addition, students interested in public policy, policy evaluation and the growing non-profit sector will benefit from more formal instruction in economics. The minor in economics develops analytical skills and could be very useful to those who want to pursue a graduate and/or professional degree.

ECON Minor Core - Credits: 9

- ECON 201 - Principles of Macroeconomics Credits: 3
 - ECON 202 - Principles of Microeconomics Credits: 3
 - ECON 301 - Macroeconomic Analysis Credits: 3
- OR
- ECON 302 - Microeconomic Analysis Credits: 3

Choose 3 additional courses from the following list - Credits: 9

- Any Economics course at the 300 Level or Higher
- HIST 336 - American Economic History Credits: 3
- POLS 255 - Introduction to Public Policy Credits: 3

- POLS 359 - Policy Analysis and Evaluation Credits: 3

Minor in Finance (for ACCT, ECON, FIN, HCAM, IS, MGMT, and MRKT students only)

School of Business

Students pursuing a minor in finance must maintain a minimum GPA of 2.000 in all business courses taken at Slippery Rock University.

Required Minor Requirements - Credits: 24

- FIN 320 - Managerial Finance Credits: 3
- FIN 321 - Investments Credits: 3
- FIN 323 - Financial Markets and Institutions Credits: 3
- FIN 326 - Intermediate Corporate Finance Credits: 3
- FIN 427 - International Financial Management Credits: 3
- MGMT 320 - Operations Management I Credits: 3

- MGMT 351 - Organizational Behavior Credits: 3
OR
- HCAM 360 - Healthcare Organizational Dynamics Credits: 3

- MRKT 330 - Principles of Marketing Credits: 3

Communication

222 Eisenberg Building
724-738-2032

Communication Department

The fundamental mission of the Communication Department of Slippery Rock University is to provide high-quality undergraduate academic instruction, preparing its undergraduate majors to pursue careers as professional communicators in the areas of Journalism, Multimedia, and Public Relations; or to pursue careers in academia by preparing students for graduate study.

The Communication Department emphasizes "hands-on" project-based learning. We seek to provide the experiences and opportunities required for students to develop intellectually and socially, and to demonstrate professional skills, attitudes, confidence and self-reliance. We seek to promote this development in an open, nurturing, and friendly environment. We believe that our effectiveness in fulfilling this mission will be best measured by the collective excellence of our graduates, and by the successes they demonstrate professionally and in serving their communities.

Chair

Amy Walters

Secretary

Marilyn Garczynski

Faculty

Brett Barnett, Mark Chase, Thomas Flynn, Jennifer Foster, Joseph Harry, James Laux, Christine Pease-Hernandez, Li Pu, Katrina Quinn, Valerie Swarts, Amy Walters, Mark Zeltner

The Communication Department offers a Bachelor of Science Degree in three tracks: Emerging Technology, Journalism, and Public Relations; as well as a Bachelor of Arts in Communication. The students in each major complete a common core of courses that provide a solid foundation within the discipline, including visual aesthetics, research and analysis, communication law and ethics, and professional and career skills. Our degree programs are integrated, providing each major with a communication curriculum that combines an immersion in communication principles, development of speaking, writing and design skills, with practical professional application, ensuring that our students have a holistic experience, melding academic and professional communication. The capstone course for communication majors is Senior Seminar, which is one credit-hour, provides a deeper understanding of professional expectations, and hones students' career skills as they transition into the working world.

Our Digital Media Production program is recently updated to address the professional needs of the quickly evolving digital technology fields. Working with members of the Department's Advisory Board, composed of active professionals in publications, multimedia production, web design and web analytics, the program curriculum reflects industry expectations for entry-level professionals in graphic design and media production in a digital age.

The Journalism program has evolved as well, providing students not only with traditional journalistic training, but providing more emphasis in a converged New Media Journalism. Our program melds standard print journalism skills with the use of social media and digital video technology, as well as presentation formats (e.g., blogs) to allow student journalists to integrate a range of skills. The program offers Print and Broadcast emphases.

The BS in Communication-Public Relations program reflects the preparation expectations of the public relations profession. Based on surveys of employers and internship directors, the advice of our Advisory Board, assessment, and industry data, the curriculum was developed to enhance students' abilities to develop technology-based skills, in addition to core competencies such as research and writing. Not only will the changes allow students to better address new developments in the professional field, and to provide them new areas of specialization.

Maintaining the tradition of study of communication as a liberal art, and recognizing the often-blurred boundaries among communication specialties, we continue to offer an integrated Bachelor of Arts degree. Because communication underlies all human pursuits, we seek to prepare students with the ethical standards necessary to preserve the ideals of democratic free expression. We also seek to develop their abilities to produce, distribute, analyze and critically consume communication. The Bachelor of Arts program is organized so that a student, working with their advisor, can develop a program of study that best suits their interests. The degree requirements are flexible, allowing transfer students and those who change majors later in their college careers to complete a Communication degree within a four-year time period.

The department has a vibrant and aggressive internship program available to qualified students. Internships are required for all students in the three Bachelor of Science programs and are an elective option in the Bachelor of Science degree. Our majors have taken internships in advertising, public relations, emerging technology and multimedia, radio and television broadcasting, advocacy and non-profit organizations, social service agencies, newspapers, and magazines. Students have done internships throughout the United States and abroad.

Students who have completed 15-18 hours of communication courses, and have maintained an overall QPA of 2.0, with a 2.5 in the major, are qualified to undertake an internship. Internships are available for the Fall, Spring, and Summer semesters. The number of credit-hours for any given internship is optional, and depends on the number of weeks or hours a student commits to the on-site experience. Three credit-hours are applicable toward the communication major, with any credit hours in excess designated for free elective credits, still counting toward the 120 credit-hour requirement for graduation.

There are five professionally-oriented student organizations that communication majors are encouraged to participate in; WRSK Radio, Lambda Pi Eta Honorary, Public Relations Student Society of America, *The Rocket* newspaper, and

WSRU-TV. Members of these groups engage in service and professional activities, as well as events and functions of a more social nature. These groups attend professional conferences, take field trips, perform service activities, participate in student focus groups, and provide student representation for a host of important department, college and university committees.

Our new all-digital television studio recently opened in Maltby Center, and includes an expanded studio and control room, a 24- seat classroom, an editing lab and a separate office. The studio is equipped with all new digital television production technology in the near future. We also possess a full mobile studio production package for live remote broadcasts.

Communication (BS) - Advertising

Requirements for the Major - Credits: 54

Core Requirements - Credits: 15

- COMM 110 - Communication Concepts Credits: 3
- COMM 263 - Mass Media and Society Credits: 3
- COMM 310 - Communication Research Methods Credits: 3
- COMM 410 - Communication Law Credits: 3
- COMM 497 - Senior Capstone Seminar Credits: 3

Advertising Requirements - Credits: 30

- COMM 115 - Visual Literacy Credits: 3
- COMM 201 - Digital Imaging 1 Credits: 3
- COMM 228 - Principles of Creative Advertising Credits: 3
- COMM 232 - Publication Production Credits: 3
- COMM 401 - Digital Imaging 2 Credits: 3
- COMM 434 - Advertising Production Credits: 3

- COMM 464 - Advertising Campaigns Capstone Credits: 3
OR
- COMM 453 - Media Project Management Credits: 3

- MRKT 333 - Consumer Behavior Credits: 3
- MRKT 334 - Advertising Management Credits: 3

Electives - Credits: 6

- COMM 120 - Introduction to Digital Photography Credits: 3
- COMM 254 - Video Production Credits: 3
- COMM 334 - Publication Production Credits: 3
- COMM 364 - Brand Management Credits: 3

Internship - Credits: 3

- COMM 450 - Internship Credits: 1 to 12

Communication (BS) - Converged Journalism

Communication Department

Students must earn a minimum GPA of 2.5 in the major and a minimum overall GPA of 2.0. A minimum grade of "C" is required in COMM 110, 310, and 410. At least 48 credits of the entire degree and 28 credits in the major must consist of upper level coursework.

Requirements for the Major - Credits: 57

- 29 major credits must be taken at SRU or PASSHE
- 29 major credits must be taken at the 300 level or above

Core Requirements - Credits: 15

- COMM 110 - Communication Concepts Credits: 3
- COMM 263 - Mass Media and Society Credits: 3
- COMM 310 - Communication Research Methods Credits: 3
- COMM 410 - Communication Law Credits: 3
- COMM 497 - Senior Capstone Seminar Credits: 3

Journalism Requirements - Credits: 24

- COMM 232 - Publication Production Credits: 3
- OR
- COMM 248 - Interactive Multimedia 1 Credits: 3
- COMM 242 - Journalistic Writing Credits: 3
- COMM 247 - Photojournalism Credits: 3
- COMM 347 - New-Media Journalism Credits: 3
- COMM 348 - Advanced Journalistic Writing and Reporting Credits: 3
- COMM 354 - TV Studio Production Credits: 3
- COMM 355 - TV Field Production Credits: 3
- COMM 450 - Internship Credits: 1 to 12 Credits: 3

Journalism Electives - Credits: 18

Pick 6 (at least two must be at the 400 level)

- COMM 232 - Publication Production Credits: 3
- COMM 248 - Interactive Multimedia 1 Credits: 3
- COMM 254 - Video Production Credits: 3
- COMM 307 - Social Media Credits: 3
- COMM 334 - Publication Production Credits: 3
- COMM 342 - Sports Journalism Credits: 3
- COMM 363 - Audio Production Credits: 3

- COMM 405 - Global Media Credits: 3
- COMM 422 - History of Journalism Credits: 3
- COMM 441 - Issues in Journalism Credits: 3
- COMM 455 - History of Broadcasting Credits: 3
- COMM 454 - Live Broadcast Production Credits: 3

Other Basic Requirements

Check with your advisor or a current degree audit report to see if you have been exempted from this course. The credit earned in this course will not be counted toward the 120 credit hour minimum needed to earn a degree.

- ACSD 110 - Beginning Algebra Credits: 3

Communication (BS) - Digital Media Production

Communication Department

Students must earn a minimum GPA of 2.5 in the major and a minimum overall GPA of 2.0. A minimum grade of "C" is required in COMM 110, 310, and 410. At least 48 credits of the entire degree and 27 credits in the major must consist of upper level coursework.

Requirements for the Major - Credits: 51

Core Requirements - Credits: 15

- COMM 110 - Communication Concepts Credits: 3
- COMM 263 - Mass Media and Society Credits: 3
- COMM 310 - Communication Research Methods Credits: 3
- COMM 410 - Communication Law Credits: 3
- COMM 497 - Senior Capstone Seminar Credits: 3

Digital Media Fundamentals - Credits: 12

- COMM 235 - Introduction to Digital Design Credits: 3
- COMM 248 - Interactive Multimedia 1 Credits: 3
- COMM 254 - Video Production Credits: 3
- COMM 256 - Message Preparation Credits: 3

Students must choose either Multimedia Emphasis or Television Production Emphasis area below - Credits: 15

Multimedia Emphasis

- COMM 258 - Interactive Multimedia 2 Credits: 3
 - COMM 307 - Social Media Credits: 3
- OR

- COMM 347 - New-Media Journalism Credits: 3
- COMM 359 - Interactive Multimedia 3 Credits: 3
- COMM 401 - Digital Imaging 2 Credits: 3
- COMM 453 - Media Project Management Credits: 3

Television Production Emphasis

- COMM 350 - Editing for Video Credits: 3
- COMM 354 - TV Studio Production Credits: 3
- COMM 355 - TV Field Production Credits: 3
- COMM 363 - Audio Production Credits: 3
- COMM 454 - Live Broadcast Production Credits: 3

Digital Media Electives: Credits - 6

- COMM 247 - Photojournalism Credits: 3
- COMM 258 - Interactive Multimedia 2 Credits: 3
- COMM 307 - Social Media Credits: 3
- COMM 334 - Publication Production Credits: 3
- COMM 335 - Digital Animation Credits: 3
- COMM 347 - New-Media Journalism Credits: 3
- COMM 454 - Live Broadcast Production Credits: 3
- COMM 459 - Issues in Communication Technologies Credits: 3
- COMM 480 - The Communication Age Credits: 3

Internship: Credits - 3

- COMM 450 - Internship Credits: 1 to 12 Credits: 3

Communication (BS) - Integrated Marketing Communication

The program is an interdisciplinary program with the School of Business, housed in the Communication Department, to meet the growing demand for advertising and IMC among students and in the workplace. The program presents coursework in three areas of professional competency required for employment in IMC - advertising, public relations, and marketing. It intentionally includes writing-intensive coursework as well as High-Impact Practices through the curriculum including collaborative and individual assignments, undergraduate research, experience with issues of diversity, service learning, a capstone course and an internship. The program develops an integrated skill set among students with the opportunity to select an area of specialization in either publication design or new media, both strong employment tracks at the entry level, and the opportunity to develop a professional portfolio.

PROGRAM BEGINS FALL 2015.

Requirements for the Major - Credits: 57

Students must earn a GPA of 2.5 in the major and a minimum grade of "C" in COMM 110, COMM 310 or MRKT 430, COMM 410, COMM 497

Core Requirements - Credits: 15

- COMM 110 - Communication Concepts Credits: 3
- COMM 115 - Visual Literacy Credits: 3
- COMM 263 - Mass Media and Society Credits: 3
- COMM 310 - Communication Research Methods Credits: 3
- OR
- MRKT 430 - Marketing Research Credits: 3
- COMM 410 - Communication Law Credits: 3
- COMM 497 - Senior Capstone Seminar Credits: 3

IMC Requirements - Credits: 30

- COMM 231 - Introduction to Public Relations and IMC Credits: 3
- COMM 242 - Journalistic Writing Credits: 3
- COMM 332 - Case Studies in Public Relations and Integrated Communications Credits: 3
- COMM 333 - Public Relations Writing Credits: 3
- COMM 431 - PR and IMC Campaigns Capstone Credits: 3
- MGMT 351 - Organizational Behavior Credits: 3
- MRKT 330 - Principles of Marketing Credits: 3
- MRKT 333 - Consumer Behavior Credits: 3
- MRKT 334 - Advertising Management Credits: 3
- MRKT 338 - E-Commerce Credits: 3

Specialization Area - Credits: 9

Choose either Publication Design Specialization or New Media Specialization.

Publication Design Specialization

- COMM 232 - Publication Production Credits: 3
- COMM 334 - Publication Production Credits: 3
- COMM 434 - Advertising Production Credits: 3

New Media Specialization

- COMM 248 - Interactive Multimedia 1 Credits: 3
- COMM 307 - Social Media Credits: 3
- COMM 347 - New-Media Journalism Credits: 3

Internship - Credits: 3

A minimum 3 credit internship is required.

- COMM 450 - Internship Credits: 1 to 12
- OR

- MRKT 450 - Internship Credits: 3

Communication (BS) - Public Relations Track

Communication Department

Students must earn a minimum GPA of 2.5 in the major and a minimum overall GPA of 2.0. A minimum grade of "C" is required in COMM 110, 310, and 410. At least 48 credits of the entire degree and 28 credits in the major must consist of upper level coursework.

Requirements for the Major - Credits: 54

Core Requirements - Credits: 15

- COMM 110 - Communication Concepts Credits: 3
- COMM 263 - Mass Media and Society Credits: 3
- COMM 310 - Communication Research Methods Credits: 3
- COMM 410 - Communication Law Credits: 3
- COMM 497 - Senior Capstone Seminar Credits: 3

Public Relations Emphasis - Credits: 24

- COMM 231 - Introduction to Public Relations and IMC Credits: 3
- COMM 235 - Introduction to Digital Design Credits: 3
- COMM 242 - Journalistic Writing Credits: 3
- COMM 307 - Social Media Credits: 3
- COMM 315 - Organizational Communication Credits: 3
- COMM 332 - Case Studies in Public Relations and Integrated Communications Credits: 3
- COMM 333 - Public Relations Writing Credits: 3
- COMM 415 - Persuasion Credits: 3
- OR
- COMM 312 - Argumentation Credits: 3
- COMM 431 - PR and IMC Campaigns Capstone Credits: 3

Message Production and Preparation - Credits: 9

Select three courses - at least one must be 300 level or higher

- COMM 247 - Photojournalism Credits: 3
- COMM 248 - Interactive Multimedia 1 Credits: 3
- COMM 254 - Video Production Credits: 3
- COMM 256 - Message Preparation Credits: 3
- COMM 258 - Interactive Multimedia 2 Credits: 3

- COMM 315 - Organizational Communication Credits: 3
- COMM 318 - Professional Presentation Credits: 3
- COMM 334 - Publication Production Credits: 3
- COMM 343 - Feature Journalism Credits: 3
- COMM 347 - New-Media Journalism Credits: 3

Required Business Course - Credits: 3

- MGMT 351 - Organizational Behavior Credits: 3
OR
- MRKT 330 - Principles of Marketing Credits: 3

Applied Communication - Credits: 3

Internship minimum requirements are: 18 credits in major, junior status, 2.5 GPA in major and 2.5 GPA overall

- COMM 450 - Internship Credits: 1 to 12 Credits: 3

Communication Studies (BA)

Communication Department

Students must earn a GPA of 2.5 in the major and a minimum grade of "C" in 13-110, 13-310, and 13-413. At least 40% (48 hours) of the entire degree and 50% (20 hours) of courses in the major must consist of upper level coursework.

Requirements for the Major - Credits: 39

Students are required to complete a program of 39 credit hours, including a communication core. Students select three courses to complete their communication studies requirements, and an additional set of communication electives in consultation with an adviser. All students in the Communication Studies major must maintain an overall GPA of 2.5 to enroll in COMM 310 and COMM 410, and to graduate with a Communication degree.

The Bachelor of Arts degree requires proficiency at the 103 level of a modern language or the equivalent.

Communication Core - Credits: 12

- COMM 110 - Communication Concepts Credits: 3
- COMM 310 - Communication Research Methods Credits: 3
- COMM 413 - Communication Theory Credits: 3
- COMM 497 - Senior Capstone Seminar Credits: 3

Communication Studies Requirements - Credits: 9

Choose three of the following courses.

- COMM 215 - Small Group Communication Credits: 3

- COMM 303 - Communication and Media Ethics Credits: 3
- COMM 312 - Argumentation Credits: 3
- COMM 314 - Interpersonal Communication Credits: 3
- COMM 315 - Organizational Communication Credits: 3
- COMM 410 - Communication Law Credits: 3
- COMM 415 - Persuasion Credits: 3

Communication Electives - Credits: 18

Choose any six additional communication courses. At least two courses must be 300 level or higher.

Minor in Communication

Communication Department

Internship: only 3 credits may be counted toward the minor.

Students interested in a communication minor will have an advisor from their major department, but they are encouraged to seek assistance in choosing the appropriate communication courses from a faculty member in the Department of Communication.

Students must have a minimum 2.5 GPA overall.

Requirements for a Minor in Communication - Credits: 21

Students planning to minor in communication are required to take 21 credits of communication coursework, excluding COMM 200.

Required Communication Courses - Credits: 6

- COMM 110 - Communication Concepts Credits: 3
- COMM 410 - Communication Law Credits: 3

Required Communication Course - Credits: 3

- COMM 310 - Communication Research Methods Credits: 3
- HLTH 406 - Program Planning and Evaluation Credits: 3
- SEFE 370 - Educational Measurements, Assessment and Evaluation Credits: 3
- HIST 205 - The Historian's Craft Credits: 3
- MRKT 430 - Marketing Research Credits: 3
- POLS 310 - Research Methods Credits: 3
- PSYC 221 - Introduction to Behavioral Statistics Credits: 3
- SPMT 499 - Sport Management Research Methods Credits: 3
- SOWK 318 - Research Methods Credits: 3

Electives - Credits: 12

Students are required to take one 400 level, one 300 or 400 level, and two additional courses at any level.

Please refer to curriculum guide for course selection.

Minor in Communication - Graphic Design Track for Art Majors

Communication Department

21 Credits

Required Communication Courses - 21 Hours

- COMM 110 - Communication Concepts Credits: 3
- COMM 232 - Publication Production Credits: 3
- COMM 258 - Interactive Multimedia 2 Credits: 3
- COMM 334 - Publication Production Credits: 3
- COMM 453 - Media Project Management Credits: 3
- COMM 359 - Interactive Multimedia 3 Credits: 3
- COMM 410 - Communication Law Credits: 3

Healthcare Administration & Information Systems

Health Care Administration and Management (BS)

The Bachelor of Science in Health Care Administration & Management (HCAM) program is intended to prepare students to assume entry-level positions in the vast and dynamic healthcare industry. Areas for employment include: hospitals, pharmaceutical, medical supply, insurance, managed care, healthcare technology, group practices, nursing homes, skilled nursing facilities, government agencies, primary care centers, retirement villages, adult day care centers, senior centers, rehabilitation & specialty hospitals, and more.

The HCAM program engages students in their Health Care Administration & Management coursework through their academic experience. Additionally, HCAM majors have the ability to choose a concentration that is aligned with their interests and acumen.

- Leadership Concentration
- Information Systems Management Concentration
- Marketing & Sales Management Concentration
- Finance Concentration
- Long-term Care Management Concentration

Students learn how to be future leaders in health care by learning a 360 degree perspective of the United States health care delivery & insurance systems, including: leadership, health care ethics, legal & regulatory environments, healthcare informatics & technology, economic principles behind policy, finance, organizational design, quality &

process improvement, marketing & sales, international health care systems, and the foundations of health services research.

The HCAM program incorporates high impact practices such as collaboration with health care industry stakeholders for internships, course projects, service and experiential learning, and students research.

For more program information, please visit our Health Care Administration and Management page.

Major Requirements - Credits: 60

Requirements for all HCAM Majors - Credits: 48

All HCAM majors must choose one of five concentrations shown below.

- ACCT 209 - Financial Accounting Credits: 3
- BUSA 340 - Legal Environment of Business I Credits: 3

- ECON 219 - Business Statistics Credits: 3
OR
- MGMT 219 - Business Statistics Credits: 3
OR
- STAT 152 - Elementary Statistics I Credits: 3

- ECON 312 - Critical Choices in Health Care Policy Credits: 3
- HCAM 230 - The US Healthcare System Credits: 3
- HCAM 275 - Health Care Legal & Ethical Foundations Credits: 3
- HCAM 360 - Healthcare Organizational Dynamics Credits: 3
- HCAM 365 - Managed Care & Insurance Credits: 3
- HCAM 380 - Healthcare Value-Based Reimbursement Systems Credits: 3
- HCAM 400 - Legal Environment of Healthcare Credits: 3
- HCAM 405 - Health Care Quality and Process Improvement Credits: 3
- HCAM 430 - Financial Management of Healthcare Organizations Credits: 3
- HCAM 450 - Internship - Health Care Administration & Management Credits: 3 to 12
- HCAM 499 - Health Care Theory and Research Capstone Seminar Credits: 3
- HLTH 210 - Introduction to Public Health Credits: 3
- MIS 210 - Productivity Software Credits: 3

Option 1: HCAM - Concentration in Leadership - Credits: 12

Required Courses

- HCAM 410 - Strategic Leadership in Health Care Organizations Credits: 3
- MGMT 320 - Operations Management I Credits: 3
- MGMT 354 - Human Resources Management Credits: 3

Plus Select One of the Following

- HCAM 300 - Healthcare Systems: Global Perspectives and Analysis Credits: 3

- HCAM 425 - Long Term Care Management Credits: 3
- MIS 403 - Introduction to Health Care Info Systems Credits: 3

Option 2: HCAM - Concentration in Management Information Systems - Credits: 12

Required Courses

- MIS 323 - Database Systems Credits: 3
- MIS 413 - Systems Analysis Credits: 3
- MIS 443 - Project Management Credits: 3
- MIS 403 - Introduction to Health Care Info Systems Credits: 3

Option 3: HCAM - Concentration in Marketing & Sales - Credits: 12

Required Courses

- HCAM 415 - Marketing for Health Care Organizations Credits: 3
- MRKT 330 - Principles of Marketing Credits: 3

Plus Select One of the Following Pairs of Courses

- MRKT 333 - Consumer Behavior Credits: 3
- MRKT 336 - Professional Selling Credits: 3
- OR
- MRKT 333 Credits 3
- MRKT 430 - Marketing Research Credits: 3
- OR
- MRKT 437 - International Marketing Credits: 3
- HCAM 300 - Healthcare Systems: Global Perspectives and Analysis Credits: 3

Option 4: HCAM - Concentration in Long-Term Care Management - Credits: 12

Required Courses

- GERO 265 - Aging and the Older Person Credits: 3
- HCAM 425 - Long Term Care Management Credits: 3

Plus Select One of the Following

- GERO 414 - Death and Dying Credits: 3
- GERO 465 - Seminar in Gerontology Credits: 3
- HCAM 410 - Strategic Leadership in Health Care Organizations Credits: 3
- INDP 342 - Sociology of Aging Credits: 3

- RCTH 420 - Recreational Therapy for Older Adults Credits: 3

Option 5: HCAM - Concentration in Finance Management - Credits: 12

Required Courses

- ACCT 313 - Intermediate Accounting I Credits: 3
- ACCT 322 - Business Analysis and Decision Making Credits: 3
- FIN 320 - Managerial Finance Credits: 3
- FIN 326 - Intermediate Corporate Finance Credits: 3

Courses that can substitute for electives in Option 1, 3, and 4

- HCAM 198-498
- HCAM 195-495

Health Care Administration and Management Pre-Occupational Therapy SRU 3+3

Major Requirements - Credits: 51

Required Basic Courses - Credits: 21

- ACCT 209 - Financial Accounting Credits: 3
- ECON 202 - Principles of Microeconomics Credits: 3
- HCAM 230 - The US Healthcare System Credits: 3
- HCAM 275 - Health Care Legal & Ethical Foundations Credits: 3
- HLTH 210 - Introduction to Public Health Credits: 3
- MIS 210 - Productivity Software Credits: 3
- STAT 152 - Elementary Statistics I Credits: 3

Required Upper Level Courses - Credits: 30

33 Credits if accepted to SRU DOT Program. Must have achieved "Sufficient Academic Performance" to take these courses. Must earn a "C" or better in all of the following, ACCT, HCAM, MIS and PHIL courses.

- HCAM 360 - Healthcare Organizational Dynamics Credits: 3
- HCAM 365 - Managed Care & Insurance Credits: 3
- HCAM 400 - Legal Environment of Healthcare Credits: 3
- HCAM 405 - Health Care Quality and Process Improvement Credits: 3
- HCAM 410 - Strategic Leadership in Health Care Organizations Credits: 3
- HCAM 430 - Financial Management of Healthcare Organizations Credits: 3
- HCAM 499 - Health Care Theory and Research Capstone Seminar Credits: 3
- BUSA 340 - Legal Environment of Business I Credits: 3
- ECON 312 - Critical Choices in Health Care Policy Credits: 3

- MIS 403 - Introduction to Health Care Info Systems Credits: 3

Additional Occupational Therapy Prerequisite Courses - Credits: 6

- BIOL 216 - Anatomy and Physiology I /Lab Credits: 3
- BIOL 217 - Anatomy and Physiology II/Lab Credits: 3
- ERS 250 - Medical Terminology Credits: 3
- PHYS 201 - Elements of Physics I/ Lab Credits: 4
- PSYC 105 - Introduction to Psychology Credits: 3

- PSYC 240 - Human Sexual Behavior Credits: 3
OR
- PSYC 244 - Developmental Psychology Credits: 3
OR
- PSYC 276 - Introduction to Abnormal Psychology Credits: 3

- INDP 106 - Race and Ethnic Diversity in the USA Credits: 3
OR
- INDP 202 - Introduction to Anthropology Credits: 3
OR
- INDP 310 - Cultural Area Studies Credits: 3
OR
- INDP 321 - Minority Groups Credits: 3
OR
- SOWK 105 - Human Diversity Credits: 3

Health Care Administration and Management Pre-Physical Therapy SRU 3+3:

Offered by: Health Care Administration and Management (BS)

The SRU HCAM major is an excellent choice if you're preparing for graduate study and a career as a physical therapist.

WHY CHOOSE HEALTH CARE ADMINISTRATION AND MANAGEMENT (hcam): PRE-PHYSICAL THERAPY?

The SRU Health Care Administration and Management program will provide you with both the science-based prerequisites necessary to enter the Physical Therapy program AND an understanding of how the healthcare industry functions. This combination will significantly differentiate you from others with future employers as uniquely prepared for your chosen career path. As an HCAM student at SRU, you'll become skilled in understanding not only the science

and anatomical underpinnings required to pursue your degree in physical therapy, but will also learn how to become a leader in the field. You'll understand the principles behind health care leadership, healthcare quality improvement processes, motivation, teamwork processes, health care information systems, the health care legal and regulatory environment, as well as managed care and healthcare reimbursement. As members of the nations largest industry, physical therapists are being asked to take on leadership roles which include a greater grasp of the business of healthcare.

WHAT ARE YOUR OPTIONS?

Health Care Administration and Management Pre-Physical Therapy SRU 3+3:

Earn a Doctor of Physical Therapy in six years rather than seven. In the first three years, you complete your Health Care Administration and Management major courses and pre-requisites for the SRU DPT program. During your third undergraduate year, you apply for admission into the SRU DPT program. If accepted, your first year in the SRU DPT program meets the remaining requirements for your undergraduate degree. If not accepted, you continue to complete your undergraduate degree and can reapply to the program. The accelerated option is for incoming freshmen only.

Health Care Administration and Management Pre-Physical Therapy (SRU Traditional):

Complete the requirements for your Health Care Administration and Management major and the pre-requisites for the SRU DPT program and apply to the SRU DPT program in your senior year.

CAREER AS A PHYSICAL THERAPIST

- Upon completion of the undergraduate program and the Doctorate of Physical Therapy program you will be well prepared to embark on your career as a Physical Therapist, a growing profession with increasing demand. Degrees in Health Care Administration and Management and the Doctorate of Physical Therapy will differentiate you to future employers as someone with knowledge, skills, and abilities that are greatly desired. These unique skills will help you to become a leader in the industry.

CLUBS & ORGANIZATIONS

- Future Healthcare Leaders
- Pre-Physical Therapy Club

RELATED PROGRAMS

- Biology: Pre-Physical Therapy
- Exercise Sciences
- Public Health: Pre-Physical Therapy
- Recreational Therapy: Pre-Physical Therapy

Health Care Administration and Management (BS)

Major Requirements - Credits: 48

Required Basic Courses - Credits: 21

- HCAM 230 - The US Healthcare System Credits: 3
- HCAM 275 - Health Care Legal & Ethical Foundations Credits: 3
- HLTH 210 - Introduction to Public Health Credits: 3
- ACCT 209 - Financial Accounting Credits: 3
- ECON 202 - Principles of Microeconomics Credits: 3
- STAT 152 - Elementary Statistics I Credits: 3
- MIS 210 - Productivity Software Credits: 3

Required Upper Level Courses - Credits: 27 (If accepted to SRU DPT Program)

Must have achieved "Sufficient Academic Performance" to take these courses.

Must earn a "C" or better in all of the following ACCT, HCAM, IS and PHIL courses:

- ECON 312 - Critical Choices in Health Care Policy Credits: 3
- HCAM 360 - Healthcare Organizational Dynamics Credits: 3
- HCAM 365 - Managed Care & Insurance Credits: 3
- HCAM 400 - Legal Environment of Healthcare Credits: 3
- HCAM 405 - Health Care Quality and Process Improvement Credits: 3
- HCAM 410 - Strategic Leadership in Health Care Organizations Credits: 3
- HCAM 430 - Financial Management of Healthcare Organizations Credits: 3
- BUSA 340 - Legal Environment of Business I Credits: 3
- MIS 403 - Introduction to Health Care Info Systems Credits: 3

Additional Physical Therapy Prerequisite courses - Credits: 24

See Admission Requirements for additional prerequisites.

- BIOL 217 - Anatomy and Physiology II/Lab Credits: 3
- [CHEM 107 - General Chemistry I Credits: 3
and
CHEM 111 - General Chemistry I Lab Credits: 1]
- [CHEM 108 - General Chemistry II Credits: 3
and
CHEM 112 - General Chemistry II Lab Credits: 1]
- PHYS 202 - Elements of Physics II/ Lab Credits: 4
- PSYC 240 - Human Sexual Behavior Credits: 3
OR
- PSYC 244 - Developmental Psychology Credits: 3

Health Care Administration and Management Pre-Physician Assistant SRU 3+2

Offered by: Health Care Administration and Management (BS)

The SRU HCAM major is an excellent choice if you're preparing for graduate study and a career as a physician assistant.

WHY CHOOSE HEALTH CARE ADMINISTRATION AND MANAGEMENT (HCAM): PRE-PHYSICIAN ASSISTANT?

The SRU Health Care Administration and Management program will provide you with both the science-based prerequisites necessary to enter the Physician Assistant program AND an understanding of how the healthcare industry functions. This combination will significantly differentiate you from others with future employers as uniquely prepared for your chosen career path. As an HCAM student at SRU, you'll become skilled in understanding not only the science and anatomical underpinnings required to pursue your degree as a physician assistant, but will also learn how to become a leader in the field. You'll understand the principles behind health care leadership, healthcare quality improvement processes, motivation, teamwork processes, health care information systems, the health care legal and regulatory environment, as well as managed care and healthcare reimbursement. These are essential skills in today's healthcare industry. As members of the nations largest industry, physician assistants are being asked to take on leadership roles which include a greater grasp of the business of healthcare.

WHAT ARE YOUR OPTIONS?

Health Care Administration and Management Pre-Physician Assistant SRU 3+2:

Earn a Master of Science degree in Physician Assistant Studies in five years rather than six. In the first three years, you complete your Health Care Administration and Management major courses and pre-requisites for the SRU PA program. During your third undergraduate year, you apply for admission into the SRU PA program. If accepted, your first year in the SRU PA program meets the remaining requirements for your undergraduate degree. If not accepted, you continue to complete your undergraduate degree and can reapply to the program. The accelerated option is for incoming freshmen only.

Health Care Administration and Management Pre-Physician Assistant (SRU Traditional):

Complete the requirements for your Health Care Administration and Management major and the pre-requisites for the SRU PA program and apply to the SRU PA program in your senior year.

CAREER AS A PHYSICIAN ASSISTANT

- Upon completion of the undergraduate program and the Master of Science degree in Physician Assistant Studies program, you will be well prepared to embark on your career as a Physician Assistant, a booming profession with increasing demand. Degrees in Health Care Administration and Management and the Master of Science degree in Physician Assistant Studies will differentiate you to future employers as someone with knowledge, skills, and abilities that are greatly desired. These unique skills will help you to become a leader in the industry.

CLUBS & ORGANIZATIONS

- Future Healthcare Leaders
- Pre-Physical Therapy Club

RELATED PROGRAMS

- Biology: Pre-Physical Therapy
- Exercise Sciences
- Public Health: Pre-Physical Therapy
- Recreational Therapy: Pre-Physical Therapy

Health Care Administration and Management (BS)

Major Requirements - Credits: 48

Required Basic Courses - Credits: 21

- HCAM 230 - The US Healthcare System Credits: 3
- HCAM 275 - Health Care Legal & Ethical Foundations Credits: 3
- HLTH 210 - Introduction to Public Health Credits: 3
- ACCT 209 - Financial Accounting Credits: 3
- ECON 202 - Principles of Microeconomics Credits: 3
- STAT 152 - Elementary Statistics I Credits: 3
- MIS 210 - Productivity Software Credits: 3

Required Upper Level Courses - Credits: 27 (If accepted to SRU DPT Program)

Must have achieved "Sufficient Academic Performance" to take these courses.

Must earn a "C" or better in all of the following ACCT, HCAM, IS and PHIL courses:

- HCAM 360 - Healthcare Organizational Dynamics Credits: 3
- HCAM 365 - Managed Care & Insurance Credits: 3
- HCAM 400 - Legal Environment of Healthcare Credits: 3
- HCAM 405 - Health Care Quality and Process Improvement Credits: 3
- HCAM 410 - Strategic Leadership in Health Care Organizations Credits: 3
- HCAM 430 - Financial Management of Healthcare Organizations Credits: 3
- BUSA 340 - Legal Environment of Business I Credits: 3
- ECON 312 - Critical Choices in Health Care Policy Credits: 3
- MIS 403 - Introduction to Health Care Info Systems Credits: 3

Additional Physical Therapy Prerequisite courses - Credits: 24

See Admission Requirements for any additional prerequisites.

- BIOL 104 - Principles of Biology/Lab Credits: 4
- BIOL 217 - Anatomy and Physiology II/Lab Credits: 3

- BIOL 210 - Medical Microbiology/Lab Credits: 3
OR
- BIOL 330 - Microbiology/Lab Credits: 3

- BIOL 250 - Genetics/Lab Credits: 4

- [CHEM 107 - General Chemistry I Credits: 3
and
- CHEM 111 - General Chemistry I Lab Credits: 1]

- CHEM 201 - Organic Chemistry I Credits: 3

Hospitality, Event Management & Tourism

110A Eisenberg Building
724-738-4865

Chair

Bruce Boliver

Secretary

Michelle Orr

Faculty

Bruce Boliver, Christine Glenn, Lalanda Stromp, James Dombrosky, Se Eun Lee

The department of Hospitality Event Management and Tourism offers a Bachelor of Science degree in Resort, Recreation, and Hospitality Management.

The mission of the Resort, Recreation, and Hospitality Management major is to develop entry-level professionals in the hospitality and tourism fields with competencies in administration, management, leadership, programming, planning, sustainability, hospitality, and business skills. This is accomplished by providing quality academic preparation that incorporates both classroom and supervised practical experiences.

The department cooperates closely with a number of agencies and organizations in the hospitality and tourism industry to provide quality academic and practical experiences. Cooperative agreements with a variety of resorts, hotels, cruise lines, VCB's, country clubs, arenas, YMCA's, municipal recreation departments, and campgrounds provide ample opportunities for students to acquire a sound base in the practical application of theory, knowledge, and skills provided in the classroom.

Graduates of the program are currently employed in positions within the hospitality and tourism fields. Many are serving as resort and cruise line recreation directors and managers, YMCA directors, event planners, camp directors, front desk managers, hotel assistant GM's, and municipal recreation directors.

Resort, Recreation and Hospitality Management (BS)

The department of Hospitality Event Management and Tourism offers a Bachelor of Science degree in Resort, Recreation, and Hospitality Management.

The mission of the Resort, Recreation, and Hospitality Management major is to develop entry-level professionals in the hospitality and tourism fields with competencies in administration, management, leadership, programming, planning, sustainability, hospitality, and business skills. This is accomplished by providing quality academic preparation that incorporates both classroom and supervised practical experiences.

The department cooperates closely with a number of agencies and organizations in the hospitality and tourism industry to provide quality academic and practical experiences. Cooperative agreements with a variety of resorts, hotels, cruise lines, VCB's, country clubs, arenas, YMCA's, municipal recreation departments, and campgrounds provide ample opportunities for students to acquire a sound base in the practical application of theory, knowledge, and skills provided in the classroom.

Graduates of the program are currently employed in positions within the hospitality and tourism fields. Many are serving as resort and cruise line recreation directors and managers, YMCA directors, event planners, camp directors, front desk managers, hotel assistant GM's, and municipal recreation directors.

GPA Requirement

- 2.5 or higher Major GPA
- 2.25 or higher Overall GPA

Requirements for the Major - Credits: 60

Resort, Recreation and Hospitality Management Core - Credits: 30

- HEMT 112 - Introduction to Hospitality, Event Management and Tourism Credits: 3
- HEMT 114 - Sustainability in the Hospitality Industry Credits: 3
- HEMT 210 - Ecotourism Credits: 3
- HEMT 215 - Public Relations for Hospitality, Event Management and Tourism Credits: 3
- HEMT 222 - Programming and Leadership for HEMT Credits: 3
- HEMT 316 - Management of Hospitality and Tourism Facilities Credits: 3
- HEMT 318 - Administration for Hospitality, Event Management and Tourism Credits: 3
- HEMT 322 - Food and Beverage Operations Credits: 3
- HEMT 351 - Practicum in HEMT Credits: 3
- HEMT 415 - Challenges and Trends in Hospitality, Event Management and Tourism Credits: 3

Required Internship - Credits: 12

- HEMT 450 - Internship in HEMT Credits: 12

Additional Required Coursework - Credits: 18

- HEMT 311 - Principles of Commercial Recreation/Tourism Credits: 3
- HEMT 312 - Commercial Recreational Feasibility Studies Credits: 3
- HEMT 320 - Hospitality and Tourism Marketing Credits: 3
- HEMT 416 - Resort Recreation Programming Credits: 3
- HEMT 417 - Hotel/Lodging & Hospitality Management Credits: 3

- HEMT 436 - Meeting Planning & Tournament Structure Credits: 3

Management & Marketing

Management (BSBA) - Online Degree Completion Program

This academic **ONLINE DEGREE COMPLETION PROGRAM** is designed for experienced college students, **WHO HAVE COMPLETED SOME COURSEWORK AND PROVEN THEIR ABILITY TO SUCCEED AT THE COLLEGE LEVEL**. This fully ACBSP accredited business program focuses on the process of working with and through others to achieve organizational objectives. Through this curriculum, students are exposed to decision making in varied areas: human resources, operations, quality, globalization, organizational behavior, ethics and corporate social responsibility. Students are encouraged to think strategically and critically regarding the domestic and international challenges of today's business environment and the multicultural nature of the modern work force. Today's manager must make effective decisions in the functions of planning, organizing, leading and controlling in an increasingly complex, diverse and dynamic environment.

Admission requirements for this program are as follows:

- Students must hold an associate degree in business administration from an SRU-recognized accredited program, which must include competency in mathematics, English writing, and computer applications. Recognition of the program and eligibility for program admission is determined by the Transfer Admissions office.
- The applicant must have earned a cumulative GPA of 2.0 or higher from all post-secondary institutions attended.
- The applicant must be in good academic standing at the most recent institution attended

Major Requirements - Credits: 66

33 major credits must be taken at SRU or another PASSHE University.

Basic Core Courses - Credits: 39

- ACCT 209 - Financial Accounting Credits: 3
- ACCT 322 - Business Analysis and Decision Making Credits: 3
- BUSA 340 - Legal Environment of Business I Credits: 3
- BUSA 303 - Issues in Global Business Credits: 3
- MGMT 458 - Business Capstone Credits: 3
- ECON 201 - Principles of Macroeconomics Credits: 3
- ECON 202 - Principles of Microeconomics Credits: 3
- FIN 320 - Managerial Finance Credits: 3
- MGMT 320 - Operations Management I Credits: 3
- MIS 265 - Management Information Systems Credits: 3
- MGMT 351 - Organizational Behavior Credits: 3
- MRKT 330 - Principles of Marketing Credits: 3

Required Computer Science Course - Credits: 3

- MIS 210 - Productivity Software Credits: 3

Required Math Course - Credits: 3-4

- MATH 123 - Introduction to Applied Calculus Credits: 3
OR
- MATH 125 - Precalculus Credits: 4
OR
- MATH 225 - Calculus I Credits: 4

Required Management Course - Credits: 12

- MGMT 354 - Human Resources Management Credits: 3
- MGMT 454 - Management Seminar Credits: 3
- MGMT 456 - Management and Society Credits: 3
- MGMT 457 - International Management Credits: 3

Business Electives - Credits: 9

- BUSA 370 - Sustainable Entrepreneurship and Innovation Credits: 3
- BUSA 459 - Sustainable Business Consulting Credits: 3
OR
- MGMT 459 - Sustainable Business Consulting Credits: 3
- MGMT 341 - Organizational Leadership Credits: 3
- MGMT 352 - Operations Management II Credits: 3
- MGMT 357 - International Operations Management Credits: 3
- MGMT 360 - Total Quality Management Credits: 3
- MGMT 364 - Recruitment and Selection Credits: 3
- MGMT 450 - Internship Credits: 1 to 12
- BUSA 451 - Employment Law Credits: 3
- MGMT 452 - Management-Labor Relations Credits: 3
- MGMT 455 - Compensation Management Credits: 3
- MGMT 460 - Training and Development Credits: 3

Computer Competency

Must demonstrate competency by equivalent of one of SRU's:

- CPSC 100 - Introduction to Computing for Liberal Arts Credits: 1
- CPSC 110 - Computer Concepts Credits: 3
- CPSC 130 - Introduction to Computing and Programming Credits: 3

Other Basic (MATH) Requirement

- ACSD 110 - Beginning Algebra Credits: 3

Liberal Studies Requirements - Credits: 45

Electives - Credits: 18-19

Management - General Management Concentration (BSBA)

School of Business

A student pursuing a bachelor of science in business administration degree can choose to major in management. This program focuses on the process of working with and through others to achieve organizational objectives. Today's manager must effectively plan, organize, lead and make decisions in an increasingly complex, changing environment.

The management students learn to make decisions regarding production, personnel, and overall strategy within the organization, considering the need to be responsive to growing societal demands, international competition and the multicultural nature of today's work force. The program is relevant to students who plan to own, manage, or consult for any organization, large or small, public or private, profit or nonprofit.

Requirements for the Major - Credits: 69

Required Management Courses - Credits: 9

- MGMT 354 - Human Resources Management Credits: 3
- MGMT 454 - Management Seminar Credits: 3
- MGMT 457 - International Management Credits: 3

General Management Concentration - Credits: 12

Required Course:

- MGMT 456 - Management and Society Credits: 3

Choose 3 courses:

- BUSA 370 - Sustainable Entrepreneurship and Innovation Credits: 3
- BUSA 451 - Employment Law Credits: 3
- BUSA 459 - Sustainable Business Consulting Credits: 3

OR

- MGMT 459 - Sustainable Business Consulting Credits: 3
- MGMT 341 - Organizational Leadership Credits: 3
- MGMT 352 - Operations Management II Credits: 3
- MGMT 357 - International Operations Management Credits: 3
- MGMT 360 - Total Quality Management Credits: 3
- MGMT 364 - Recruitment and Selection Credits: 3
- MGMT 450 - Internship Credits: 1 to 12
- MGMT 452 - Management-Labor Relations Credits: 3
- MGMT 455 - Compensation Management Credits: 3
- MGMT 460 - Training and Development Credits: 3

Required Computer Science Course - Credits: 3

- CPSC 210 - Productivity Software Credits: 3
OR
- MIS 210 - Productivity Software Credits: 3

Required Mathematics Course - Credits: 3

- MATH 113 - Mathematics as a Liberal Art Credits: 3
- MATH 115 - Financial Mathematics Credits: 3
- MATH 118 - Elementary Geometry Credits: 3
- MATH 122 - Finite Mathematics with Matrices Credits: 3
- MATH 123 - Introduction to Applied Calculus Credits: 3
- MATH 125 - Precalculus Credits: 4
- MATH 131 - Discrete Mathematics Credits: 3
- MATH 210 - Elementary Mathematics I Credits: 3
- MATH 225 - Calculus I Credits: 4

Business Administration Core - Credits: 42

- ACCT 209 - Financial Accounting Credits: 3

- ACCT 310 - Cost Accounting Credits: 3 (Accounting Majors)
OR
- ACCT 322 - Business Analysis and Decision Making Credits: 3 (Non-Accounting Majors)

- BUSA 303 - Issues in Global Business Credits: 3
OR
- MRKT 303 - Issues in Global Business Credits: 3

- BUSA 340 - Legal Environment of Business I Credits: 3
- ECON 201 - Principles of Macroeconomics Credits: 3
- ECON 202 - Principles of Microeconomics Credits: 3

- ECON 219 - Business Statistics Credits: 3
OR
- MGMT 219 - Business Statistics Credits: 3

- ECON 319 - Business Analytics II Credits: 3
OR
- MGMT 319 - Business Analytics II Credits: 3

- FIN 320 - Managerial Finance Credits: 3
- MGMT 320 - Operations Management I Credits: 3
- MGMT 351 - Organizational Behavior Credits: 3
- MGMT 458 - Business Capstone Credits: 3
- MIS 265 - Management Information Systems Credits: 3

- MRKT 330 - Principles of Marketing Credits: 3

Management - Human Resources Concentration (BSBA)

School of Business

A student pursuing a bachelor of science in business administration degree can choose to major in management. This program focuses on the process of working with and through others to achieve organizational objectives. Today's manager must effectively plan, organize, lead and make decisions in an increasingly complex, changing environment.

The management students learn to make decisions regarding production, personnel, and overall strategy within the organization, considering the need to be responsive to growing societal demands, international competition and the multicultural nature of today's work force. The program is relevant to students who plan to own, manage, or consult for any organization, large or small, public or private, profit or nonprofit.

Requirements for the Major - Credits: 72

Required Management Courses - Credits: 9

- MGMT 354 - Human Resources Management Credits: 3
- MGMT 454 - Management Seminar Credits: 3
- MGMT 457 - International Management Credits: 3

Human Resources Concentration - Credits: 15

Required Courses - Credits: 12

- MGMT 364 - Recruitment and Selection Credits: 3
- MGMT 452 - Management-Labor Relations Credits: 3
- MGMT 456 - Management and Society Credits: 3
- MGMT 460 - Training and Development Credits: 3

Elective - Credits: 3

Choose one course from the following:

- MGMT 341 - Organizational Leadership Credits: 3
- MGMT 455 - Compensation Management Credits: 3

Required Computer Science Course - Credits: 3

- CPSC 210 - Productivity Software Credits: 3
- OR
- MIS 210 - Productivity Software Credits: 3

Required Mathematics Course - Credits: 3

- MATH 113 - Mathematics as a Liberal Art Credits: 3
- MATH 115 - Financial Mathematics Credits: 3
- MATH 118 - Elementary Geometry Credits: 3
- MATH 122 - Finite Mathematics with Matrices Credits: 3
- MATH 123 - Introduction to Applied Calculus Credits: 3
- MATH 125 - Precalculus Credits: 4
- MATH 131 - Discrete Mathematics Credits: 3
- MATH 210 - Elementary Mathematics I Credits: 3
- MATH 225 - Calculus I Credits: 4

Business Administration Core - Credits: 42

- ACCT 209 - Financial Accounting Credits: 3

- ACCT 310 - Cost Accounting Credits: 3 (Accounting Majors)
OR
- ACCT 322 - Business Analysis and Decision Making Credits: 3 (Non-Accounting Majors)

- BUSA 303 - Issues in Global Business Credits: 3
OR
- MRKT 303 - Issues in Global Business Credits: 3

- BUSA 340 - Legal Environment of Business I Credits: 3
- ECON 201 - Principles of Macroeconomics Credits: 3
- ECON 202 - Principles of Microeconomics Credits: 3

- ECON 219 - Business Statistics Credits: 3
OR
- MGMT 219 - Business Statistics Credits: 3

- ECON 319 - Business Analytics II Credits: 3
OR
- MGMT 319 - Business Analytics II Credits: 3

- FIN 320 - Managerial Finance Credits: 3
- MGMT 320 - Operations Management I Credits: 3
- MGMT 351 - Organizational Behavior Credits: 3
- MGMT 458 - Business Capstone Credits: 3
- MIS 265 - Management Information Systems Credits: 3
- MRKT 330 - Principles of Marketing Credits: 3

Marketing (BSBA)

School of Business

A student pursuing a bachelor of science in business administration degree can choose to major in marketing. The study of marketing involves the dynamic process by which persons and organizations strive to anticipate and satisfy consumers' needs and wants. In a free enterprise system, this is accomplished through marketing research, product planning, pricing, promotion, and distribution.

The marketing student develops an understanding of the concepts, functions and institutions of marketing, an appreciation of the consumer orientation, the skills to analyze and the ability to formulate marketing policies. The marketing major is particularly relevant to the student planning a career in sales, advertising, consumer relations, merchandising, brand management, marketing management, marketing research, retailing services, purchasing, business logistics, small business operations, executive management, consulting, business education, or employment in certain government agencies as well as many non-profit organizations.

Requirements for the Major - Credits: 63

Required Computer Science Course - Credits: 3

- CPSC 210 - Productivity Software Credits: 3
OR
- MIS 210 - Productivity Software Credits: 3

Required Marketing Major Courses - Credits: 15

- MRKT 332 - Business Marketing Credits: 3
- MRKT 333 - Consumer Behavior Credits: 3
- MRKT 430 - Marketing Research Credits: 3
- MRKT 431 - Marketing Seminar Credits: 3
- MRKT 437 - International Marketing Credits: 3

Marketing Elective - choose one of the following - Credits: 3

- BUSA 370 - Sustainable Entrepreneurship and Innovation Credits: 3
- BUSA 459 - Sustainable Business Consulting Credits: 3
OR
- MGMT 459 - Sustainable Business Consulting Credits: 3
- HCAM 415 - Marketing for Health Care Organizations Credits: 3
- MRKT 331 - Distribution Management Credits: 3
- MRKT 334 - Advertising Management Credits: 3
- MRKT 335 - Retail Management Credits: 3
- MRKT 336 - Professional Selling Credits: 3
- MRKT 338 - E-Commerce Credits: 3
- MRKT 390 - Experimental Credits:
- MRKT 450 - Internship Credits: 3
- MRKT 490 - Independent Study Credits: 1 to 3
- MGMT 352 - Operations Management II Credits: 3
- MGMT 360 - Total Quality Management Credits: 3

Business Administration Core - Credits: 42

- ACCT 209 - Financial Accounting Credits: 3
- ACCT 310 - Cost Accounting Credits: 3 (Accounting Majors)
OR
- ACCT 322 - Business Analysis and Decision Making Credits: 3 (Non-Accounting Majors)

- BUSA 303 - Issues in Global Business Credits: 3
OR
- MRKT 303 - Issues in Global Business Credits: 3

- BUSA 340 - Legal Environment of Business I Credits: 3
- ECON 201 - Principles of Macroeconomics Credits: 3
- ECON 202 - Principles of Microeconomics Credits: 3

- ECON 219 - Business Statistics Credits: 3
OR
- MGMT 219 - Business Statistics Credits: 3

- ECON 319 - Business Analytics II Credits: 3
OR
- MGMT 319 - Business Analytics II Credits: 3

- FIN 320 - Managerial Finance Credits: 3
- MGMT 320 - Operations Management I Credits: 3
- MGMT 351 - Organizational Behavior Credits: 3
- MGMT 458 - Business Capstone Credits: 3
- MIS 265 - Management Information Systems Credits: 3
- MRKT 330 - Principles of Marketing Credits: 3

Minor in Business Administration (non-BSBA)

School of Business

Total credits: 24

Requirements for the Minor - Credits: 12

- ECON 201 - Principles of Macroeconomics Credits: 3
OR
- ECON 202 - Principles of Microeconomics Credits: 3
- ACCT 209 - Financial Accounting Credits: 3
- MRKT 330 - Principles of Marketing Credits: 3

- MGMT 351 - Organizational Behavior Credits: 3
OR
- HCAM 360 - Healthcare Organizational Dynamics Credits: 3

Electives - Credits: 12

Select twelve additional credits from the 200-, 300-, or 400-level courses in any business discipline. At least six credits must be at the 300 or 400 level.

Minor in Business: Management Pre-MBA

This minor is intended for non-BSBA (Bachelor of Science in Business Administration) students only. The Masters of Business Administration (MBA) degree is a highly sought after degree for students in many different majors that wish to pursue careers in business, the non-profit sector, and the public sector. The MBA degree offered by most institutions is a two year to two and one half year program. The BSBA core course requirements are usually credited toward the first year of an MBA program. The intent here is to offer a pre-MBA minor that will allow non-business students to prepare for the MBA program without changing their major to business administration. Given the number of students in other majors that minor in business and the number of students that reluctantly switch their major to business this minor will provide an excellent career option.

The proposed Business: Management Pre-MBA minor will be for non-BSBA students only. The minor will be 24 credit hours and require a GPA in the minor courses of 2.75 or above for successful completion. ACBSP, our business accreditation body mandates that the following common Professional Component (CPC) requirements be met for the accreditation of an MBA program. The School of Business has used these CPCs as a guide to the development of this minor:

- Marketing
- Business Finance
- Accounting
- Management
- Legal Environment of Business
- Economics
- Business Ethics
- Global Dimensions of Business
- Information Systems
- Quantitative Techniques/Statistics
- Comprehensive/ Integrative Experience

Minor Required Courses - Credits: 24

Minor Requirements:

- Students must complete at least 6 credits hours in their minor from SRU.
- A minimum of 6 credit house must be upper division.
- A minor shall be no fewer than 18 credits.
- ACCT 209 - Financial Accounting Credits: 3
- BUSA 340 - Legal Environment of Business I Credits: 3
- ECON 202 - Principles of Microeconomics Credits: 3

- ECON 219 - Business Statistics Credits: 3
- FIN 320 - Managerial Finance Credits: 3
- MGMT 351 - Organizational Behavior Credits: 3
OR
- HCAM 360 - Healthcare Organizational Dynamics Credits: 3
- MRKT 330 - Principles of Marketing Credits: 3

Minor in Human Resource Management (BSBA and HCAM Majors)

School of Business

Total credits: 18

According to a recent report published by the Society for Human Resource Management (SHRM), human resource professionals and non-human resource executives agree that retaining talent, engaging employees, providing strong benefits and compensation are the most important human resource challenges. Moreover, developing the next generation of human resource professionals is at the top of future challenges for organizational leaders. In business schools there is a proliferation of opportunities to hone human resource-related skills by offering majors, minors, certificates, etc. This minor will provide an opportunity for students to combine a specialization in human resource management with a major of their choice in the BSBA and HCAM degree programs. It is designed to include core fundamental theories and practices related to human resource management with opportunities to specialize in areas such as health care, safety management or general management.

Required Courses - Credits: 3

- MGMT 354 - Human Resources Management Credits: 3

HRM Minor Core - Credits: 9

- BUSA 340 - Legal Environment of Business I Credits: 3
- MGMT 452 - Management-Labor Relations Credits: 3
- MGMT 455 - Compensation Management Credits: 3

Choose 2 additional courses from the following list - Credits: 6

- MGMT 341 - Organizational Leadership Credits: 3
- MGMT 450 - Internship Credits: 1 to 12
- BUSA 451 - Employment Law Credits: 3
- MGMT 460 - Training and Development Credits: 3
- SAFE 118 - Introduction to Safety Credits: 3

Minor in Management (FOR ACCT, ECON, FIN, HCAM, IS, MGMT, AND MRKT STUDENTS ONLY)

School of Business

Total credits: 24

- Students must complete at least 6 credits in their minor from SRU.
- A minimum of 6 credit hours must be upper division.
- A minor shall be no fewer than 18 credits per University policy.
- Minor GPA requirement 2.0 or higher for successful completion of minor.

Required Courses - Credits: 18

- FIN 320 - Managerial Finance Credits: 3
- MGMT 320 - Operations Management I Credits: 3
- MGMT 351 - Organizational Behavior Credits: 3
- MGMT 354 - Human Resources Management Credits: 3
- MGMT 457 - International Management Credits: 3
- MRKT 330 - Principles of Marketing Credits: 3

Elective Courses - Credits: 6

Choose two 300 or 400 level Management courses.

Minor in Marketing (FOR ACCT, ECON, FIN, HCAM, IS, MGMT, AND MRKT STUDENTS ONLY)

School of Business

Total credits: 24

Students pursuing a minor in marketing must maintain a minimum GPA of 2.000 in all business courses taken at Slippery Rock University.

Required Courses - Credits: 21

- FIN 320 - Managerial Finance Credits: 3
- MGMT 320 - Operations Management I Credits: 3

- MGMT 351 - Organizational Behavior Credits: 3
OR
- HCAM 360 - Healthcare Organizational Dynamics Credits: 3

- MRKT 330 - Principles of Marketing Credits: 3

- MRKT 332 - Business Marketing Credits: 3
- MRKT 333 - Consumer Behavior Credits: 3
- MRKT 437 - International Marketing Credits: 3

Elective Courses - Credits: 3

Choose one 300 or 400 level Marketing course;

- BUSA 459 - Sustainable Business Consulting Credits: 3
OR
- MGMT 459 - Sustainable Business Consulting Credits: 3
- BUSA 370 - Sustainable Entrepreneurship and Innovation Credits: 3
- HCAM 415 - Marketing for Health Care Organizations Credits: 3

Minor in Sustainable Management

School of Business

Required Courses - Credits: 12

- ECON 202 - Principles of Microeconomics Credits: 3
- ECON 315 - Economics of Sustainable Development Credits: 3
- BIOL 105 - Environmental Biology Credits: 3
OR
- EGEO 100 - Environmental Geology Credits: 3
- MGMT 351 - Organizational Behavior Credits: 3

Elective Courses - Credits: 9

Choose three courses from the following:

- MGMT 352 - Operations Management II Credits: 3
- BUSA 370 - Sustainable Entrepreneurship and Innovation Credits: 3
- BUSA 459 - Sustainable Business Consulting Credits: 3
OR
- MGMT 459 - Sustainable Business Consulting Credits: 3
- BUSA 451 - Employment Law Credits: 3
- MGMT 456 - Management and Society Credits: 3
- MRKT 338 - E-Commerce Credits: 3

Required Internship: Credits 3

- MGMT 449 - Sustainable Management Internship Credits: 3

Military Science (Army ROTC)

Military Science Department

Office: Lowry Center

Phone: 724-738-2019

Email: sru.rotc@sru.edu

Department Chair

LTC Joseph Richey

Department Secretary

Becky Lindey

Faculty

CPT Joe Barrow, Bret Rogowitz, Chris Wolf, Daniel Renaud, Melvin Carr, SSG Ryan Graeves, CPT Stephen Peters, CPT Adam Readout, MSG Taylor Donohoe

The Department of Military Science (Army ROTC) provides a program of leadership development, which prepares college students for service as Officers in the United States Army. After graduation, they serve as commissioned officers on active duty, or as an officer in an Army Reserve or National Guard unit. These officers possess self-confidence, self-discipline, physical stamina, poise, and other attributes essential to leaders of character -- one who is prepared to serve the nation or the commonwealth both in and out of uniform.

Army ROTC

Army ROTC

The Four-Year Program:

The four-year program is divided into two parts: the Basic Course and the Advanced Course.

The Basic Course is usually taken during the first two years of college and covers such subjects as customs, traditions and organizations of the service, national defense, military history, and leadership development. In addition, a variety of outside social and professional enrichment activities are available. All necessary ROTC textbooks, uniforms, and other essential materials for the Basic Course are furnished at no cost. After completion of the Basic Course, students who have demonstrated the potential to become an officer and who have met the physical and scholastic standards are eligible to enroll in the Advanced Course. (Note: There is no military service obligation associated with taking any Basic Course electives. All electives earn academic credit.)

Military Science

Freshman Year - Total Hours: 6

- MS 100 - The American Military Experience Credits: 3
- MS 102 - Principles of Leadership Credits: 3

Sophomore Year - Total Hours: 6

- MS 201 - Basic Military Skills Credits: 3
- MS 202 - Intermediate Military Skills Credits: 3

Junior Year - Total Hours: 8

- MS 301 - Fundamentals of Tactical Operations Credits: 4
- MS 302 - Advanced Military Skills Credits: 4

Senior Year - Total Hours: 8

- MS 401 - Leadership Dimensions and Concepts Credits: 4
- MS 402 - Officership and the Profession of Arms Credits: 4

Required Course (Any Year)

- HIST 304 - American Military History Credits: 3

The Two-Year Program:

The two-year program is designed for junior students and community college graduates, students at four-year colleges who did not take ROTC during their first two years of school, or students entering a two-year post-baccalaureate or graduate course of study.

To enter the two-year program, students must first attend a fully-paid five-week Leadership Training Course (LTC), normally held during the summer between the sophomore and junior years of college. At LTC, students learn to challenge themselves physically and mentally, and to build their confidence and self-respect.

After they have successfully completed LTC, students who meet all necessary enrollment requirements may enroll in the Advanced Course.

Students who have attended basic training/AIT also qualify for the two-year program.

Army ROTC Scholarship/Financial Assistance

Army ROTC offers two-year, three-year, and four-year scholarships on a competitive basis to the most outstanding students who apply. Three and two-year scholarships are awarded to students already enrolled in college. Students who attend the LTC in the two-year program may compete for two-year scholarships.

Each scholarship pays for college tuition and required educational fees and provides a specified amount for textbooks. Each scholarship also includes subsistence allowance of \$3,500-\$5,000 for every year the scholarship is in effect.

All cadets in the Advanced Course receive a subsistence allowance of \$4,500-\$5,000 for each of the two years (This is not in addition to the subsistence allowance provided to scholarship recipients), as well as pay for attending the five-week Leadership Development and Assessment Course during the summer between their Junior and Senior years.

The Simultaneous Membership Program

Students who have not been awarded an ROTC scholarship can get a head start on their military careers and their future through the Simultaneous Membership Program (SMP). This program allows students to be members of the Army National Guard or the Army Reserve and Army ROTC at the same time.

SMP students are paid at the rate of at least a Sergeant (E-5) for their guard or reserve training assemblies, plus the aforementioned allowance from the ROTC Advanced Course. SMP students may also be eligible for additional federal and state educational benefits. They serve as officer trainees in their guard or reserve units and, under the close supervision of a commissioned officer, perform duties commensurate with those of a Second Lieutenant.

Cadets who successfully complete the SMP program graduate with a commission as a Second Lieutenant. Once commissioned, they may continue to serve in their Army National Guard or Army Reserve units, or they may apply for active duty in the U.S. Army.

Students can be in the SMP program all four years at college. They will be paid at the rate of Sergeant for only the final three years.

Requirements for Enrollment

The general requirements for enrollment in Army ROTC stipulate that students be accepted as a regularly enrolled university student and be a citizen of the United States. Veterans and JROTC graduates may receive exemptions from the basic course as approved by the Professor of Military Science (PMS). For continuation in ROTC during the junior and senior years, students must have a 2.500 grade point average in their academic area, have successfully completed requirements for the Basic Course, pass a physical examination, and be accepted by the PMS. Advanced Course students must agree in writing to complete the junior and senior years.

Safety Management

Safety Management

Office: 106 Strain Safety Building

Phone: 724-738-2017

Email: safety@sru.edu

Department Chair

Joseph Cali

Department Secretary

April Coleman

Faculty

Michael Adamczyk, Angela Bernardo, Joseph Cali, James Culligan, Hope Dropp, Joseph Losko, David McCall, Cindy Medford, David Renz, and Rona Smeak

The Department of Safety Management offers a Bachelor of Science with a major in Safety Management.

The mission of the Safety Management Major at Slippery Rock University is to provide a quality education in the managerial and technical aspects in the field of professional safety practice. Safety Management involves protecting and preserving people, property, productivity, and the environment.

The Bachelor of Science Degree in Safety Management at Slippery Rock University meets the **Board of Certified Safety Professionals (BCSP)** requirements as a Qualified Academic Program (QAP). The Safety Management major at SRU is an **Institute for Safety and Health Management (ISHM)** Board-approved degree program.

GPA policy

- All Transfer, Readmit, Change of Major, and Post Baccalaureate students must have an overall GPA of 2.25 before admitted to the Safety Management Major.
- Mid-term grades are not to be calculated when determining GPA for entry into the Safety Management Major.
- Once admitted to the Safety Management major, all students must maintain an overall GPA of 2.0 and a Major GPA of 2.0 in order to graduate with a Bachelor of Science Degree in Safety Management. It is solely the students' responsibility to monitor and meet this requirement.
- The Safety Management Department does not process any Change of Major requests two weeks prior to, or during any registration period.

Safety Management (BS)

Safety Management Department

Office: 106 Strain Safety Building

Phone: 724-738-2017

Department Chair

Joseph Cali

Department Secretary

April Coleman

The Department of Safety Management offers a hands-on, practical, and applied Bachelor of Science Degree in Safety Management. The B.S. in Safety Management is designed to assure development of competencies which enable innovative approaches in the establishment and direction of comprehensive safety programs in educational, governmental, private business and industrial enterprises. Safety Management involves protecting and preserving people, property, productivity and the environment. The curriculum fosters an education that enables students to become responsible, knowledgeable and accountable safety professionals. The Bachelor of Science degree in Safety Management at Slippery Rock University meets the Board of Certified Safety Professionals (BCSP) requirements as a Qualified Academic Program (QAP). The Bachelor of Science degree in Safety Management is an Institute for Safety and Health Management (ISHM) Board approved Degree Program.

The Department of Safety Management also operates a National Resource Center-WVU OSHA Training Institute Education Center Host Site. The Department adheres to the OSHA requirements that an instructor be physically in the classroom with a maximum number of 40 students. Students who successfully complete SAFE 218 (General Industry) and SAFE 258 (Construction) are eligible to receive OSHA cards. The Cards are an added value to the courses. However, a student must meet all the OSHA requirements to receive the Cards. Cards are issued at the discretion of the Instructor and enrollment in the courses does not entitle the student to the Cards. The Department is also able to offer approximately 40 OSHA courses.

For Safety Management laboratory courses, the Department of Safety Management attempts to follow the recommendation of both the National Science Teachers Association (NSTA) and Laboratory Safety Institute (LSI) which is to have the lesser of 24 students per lab, and the design capacity of the room, or 55 sq. ft. per student for lecture/lab combo rooms and 45 sq. ft. per student for only lab rooms.

GPA Policy

- All Transfer, Readmit, Change of Major, and Post Baccalaureate students must have an overall GPA of 2.25 before admitted to the Safety Management Major.
- Mid-term grades are not to be calculated when determining GPA for entry into the Safety Management Major.
- Once admitted to the Safety Management major, all students must maintain an overall GPA of 2.0 and a Major GPA of 2.0 in order to graduate with a Bachelor of Science Degree in Safety Management. It is solely the students' responsibility to monitor and meet this requirement.
- The Safety Management Department does not process any Change of Major requests two weeks prior to, or during any registration period.

Professional Certifications

Board of Certified Safety Professionals

Upon graduation (must apply within one year), Slippery Rock University Safety Majors are eligible for the Graduate Safety Practitioner (GSP) designation which waives the Associate Safety Professionals (ASP) examination and provides a pathway to the professional certification of a Certified Safety Professional (CSP). Upon four years of qualifying experience, Safety Management graduates are eligible to sit for the CSP examination. Accredited by the American Standards Institute and the National Council on Competency Assessment.

For additional information, visit: www.bccsp.org

Institute for Safety and Health Management

Upon graduation, Slippery Rock University Safety Majors are eligible for the Associate Safety and Health Certification (ASHM) designation since the examination is waived. The ASHM provides a pathway to the professional certification of a Certified Safety and Health Manager (CSHM). Upon two years of qualifying experience, Safety Management graduates are eligible to sit for the CSHM examination. Accredited by the Council of Engineering and Scientific Specialty Boards.

For additional information visit: www.ishm.org

Career Opportunities

Upon completion of the degree, students are prepared for entry-to-mid-level administrative, managerial, and supervisory positions in the field of safety. Other options include: health care, insurance, manufacturing, chemical, consulting, higher education and government agencies. Additional options and positions include: risk control manager, safety consultant, safety coordinator, safety account manager, assistant safety representative, loss control representative, health and safety scientist, safety and environmental manager, safety engineer, regional safety coordinator, senior environmental engineer, corporate health and safety officer, regulatory compliance coordinator, and safety and health compliance officer.

Internship Program

The internship offers students the opportunity to obtain firsthand experience in the work place. Students are provided the opportunity to apply concepts and techniques learned in the classroom to the workplace environment. The internship program is administered in cooperation with a variety of organizations, including government, industry, insurance, health care and other related enterprises. The 12-week, 12-credit internship is offered only during the summer term, with the majority of interns receiving compensation.

Student Organizations

All students accepted into the safety management major are encouraged to be student members of both the American Society of Safety Professionals and the student section of ASSP at Slippery Rock University. Students are also encouraged to attend meetings, conferences, seminars, and workshops as part of their professional educational growth.

Safety Management Department Attendance Policy

Attend and participate in class. There is no distinction between "excused and unexcused". When you are absent from class, **you are absent**. It is your responsibility to find out what was covered that day. As a Safety major, in order to prepare you for a career as a professional Safety practitioner, you are expected to attend class regularly and promptly.

Electronic Device Use In Class

Electronic devices such as cell phones, pagers, video games, etc. are not permitted on and must be put away during class. Student must obtain instructor's permission to use a laptop or any word processing device in the classroom. Also, no tape recording of class unless permission is given by the instructor. Electronic device use requirements are noted on course instructor syllabus.

Requirements for the Major - Credits: 60

Required Professional Courses - Credits: 54

- SAFE 118 - Introduction to Safety Credits: 3
- SAFE 218 - Legislative Compliance - General Industry Credits: 3
- SAFE 248 - Hazardous Materials and Waste Management Credits: 3
- SAFE 258 - Construction Safety Credits: 3
- SAFE 318 - Principles of Industrial Hygiene Credits: 3
- SAFE 319 - Principles of Industrial Hygiene II Credits: 3
- SAFE 328 - Comprehensive Emergency Management and Fire Services Credits: 3
- SAFE 338 - Ergonomics and Human Factors Credits: 3
- SAFE 368 - Injury and Damage Incidents Evaluation Credits: 3
- SAFE 408 - Contemporary Safety Topics and Issues Credits: 3
- SAFE 448 - Management and Integration of Safety Credits: 3

- SAFE 488 - Safety Training and Development Credits: 3
- SAFE 450 - Internship Credits: 12 (Summer only)

Safety Electives - Select Two Courses

- SAFE 228 - Motor Transportation Fleet Safety Credits: 3
- SAFE 378 - Energy Exploration and Generation Safety Credits: 3
- SAFE 418 - Security in the Workplace Credits: 3
- SAFE 478 - Environmental Permitting and Sustainability Credits: 3

Internship Requirement / Policy

Each student is required to successfully complete a 12 credit (SAFE450), 480 hour internship in order to graduate with a BS in Safety Management. It is the student's responsibility to secure an internship site. **Internship requirements are available from the Department of Safety Management.** The internship will only be waived if a student prior to entering the Safety Major at Slippery Rock University has held a professional full-time position in the field of Safety (documentation required) or has a military commitment (documentation required). An Internship Resource Manual is available listing sites where students have completed Safety Internships in the past. Potential Internship employers also conduct interviews on campus. If a student fails to secure and complete an internship, they must change their major. The major that will assist the student who does not complete an internship in graduating is a BS in Interdisciplinary Programs. (Internships are Summer only)

Required Support Courses - Credits: 6

- MGMT 351 - Organizational Behavior Credits: 3
- MGMT 354 - Human Resources Management Credits: 3

Additional Required Courses - Credits: 9

Science and Mathematics courses may also be used in your Liberal Studies requirements.

- CHEM 104 - Introduction Chemistry I Credits: 3
OR
- CHEM 107 - General Chemistry I Credits: 3
- CHEM 106 - Introductory Chemistry II Credits: 3
OR
- CHEM 108 - General Chemistry II Credits: 3
- STAT 152 - Elementary Statistics I Credits: 3
OR
- MATH 125 - Precalculus Credits: 4
OR
- MATH 225 - Calculus I Credits: 4

Sport Management

Sport Management

Office: 101 Eisenberg
Phone: 724-738-2060

Department Chair

Brian Crow

Department Secretary

Diane Robbins

Faculty

Robertha Abney, Brian Crow, Catriona Higgs

Our mission is to provide a learning environment that:

- Prepares students for a variety of careers in the sport industry
- Fosters independent critical thinking and effective problem solving
- Includes faculty who are committed to quality teaching, research and service
- Promotes collaborative efforts among faculty and students
- Develops students who have a commitment to personal and professional competency
- Emphasizes student accountability for academic performance and ethical behavior
- Prepares students to serve a diverse population in a global society

The SRU sport management undergraduate program has been in existence since 1977 and in that period has witnessed exponential growth and increased national prestige. The sport industry, due to its wide variety of positions, places unique demands on those involved in its management. These positions require management, marketing, accounting, finance, economics, communications, and legal skills specific to the sport setting. Therefore, the preparation of competent sport/business specialists is necessary. The present curriculum offers an excellent base in specific sport management courses and many sport management students complete various minors in communication, business and other specialized areas.

The curriculum continues to be reviewed and adapted to meet changes in the sport industry. Evaluations from student interns and agency supervisors create the basis of the university's considerations, along with program standards developed by COSMA. The Sport Management Department is accredited by COSMA (The Commission on Sport Management Accreditation) and is one of only 50 programs in the US to be accredited. In 2010, the Department of Sport Management was the first program in the US to be accredited by the Commission on Sport Management Accreditation (COSMA), and in 2017 was the first program to be re-accredited."

Minor in Sport Management

Sport Management

Requirements for the Minor - Credits: 25

Required Courses - Credits: 4

- SPMT 150 - Practical Application Credits: 1
- SPMT 194 - Introduction to Sport Management Credits: 3

200 Level Courses - Credits: 6

Choose 2 courses from the following:

- SPMT 269 - American Sport in the 21st Century Credits: 3
- SPMT 286 - Sport Communication and Technology Credits: 3
- SPMT 294 - Sport Management and Ethics Credits: 3

300/400 level Courses - Credits: 6-9

Choose 2 or 3 courses from the following:

If prerequisite coursework has not been completed, permission of instructor is required.

- SPMT 315 - Diversity Issues in Sport Management Credits: 3
- SPMT 369 - Sport Budgeting and Finance Credits: 3
- SPMT 394 - Sport Marketing Credits: 3
- SPMT 396 - Selling in the Sport Industry Credits: 3
- SPMT 406 - Sport Fundraising and Event Management Credits: 3
- SPMT 486 - Sport Law and Facilities Credits: 3

Required Senior Seminar - Credits: 3

All 100/200/300 classes must be completed prior to enrolling, or permission of instructor is required.

- SPMT 494 - Sport Management Senior Seminar Credits: 3

Internship - Credits: 3-6

All classes must be completed in the minor prior to enrolling in the internship. Internship may be taken for 3 or 6 credits.

- SPMT 450 - Sport Management Internship Credits: 3 to 12 Credits: 3 - 6

Sport Management (BS)

Sport Management Department

Recent estimates describe sport as one of the ten largest industries in the United States encompassing over \$400 billion dollars. This industry, due to its wide variety of positions, places unique demands on those involved in its management including skills in such areas as communications, public relations, facility management, marketing, budgeting, and legal aspects specific to sport settings.

Providing our sport management majors with the opportunity to gain knowledge and hands on experience is paramount for SRU's growth as a leader in undergraduate sport management in the United States.

The sport management degree program at Slippery Rock University has received specialized accreditation through the Commission on Sport Management Accreditation (COSMA) located in Fort Collins, Colorado, USA. In 2010, the Department of Sport Management was the first program in the US to be accredited by the Commission on Sport Management Accreditation (COSMA), and in 2017 was the first program to be re-accredited.

Requirements for the Major - Credits: 58

This major is designed to prepare students with the necessary sport business concepts, management, marketing, communication, and public relation skills to become successful managers in sport-related agencies. These agencies are diverse and include, professional sports, sport marketing firms, intercollegiate athletic departments, YMCA/YWCA's, sporting goods sales, fitness clubs, sport arenas, the Olympics, commercial recreational facilities and other sport-related agencies. A 12-credit internship is required in a sport-related agency during the last semester of the program. Students are encouraged to secure a minor in business.

Required Practical Application Courses - Credits: 4

Student must take 4 credits of SPMT 150

- SPMT 150 - Practical Application Credits: 1
4 credits total

Specialization Courses - Credits: 54

- SPMT 194 - Introduction to Sport Management Credits: 3
- SPMT 196 - Global Sport Management Credits: 3
- SPMT 269 - American Sport in the 21st Century Credits: 3
- SPMT 286 - Sport Communication and Technology Credits: 3
- SPMT 294 - Sport Management and Ethics Credits: 3
- SPMT 315 - Diversity Issues in Sport Management Credits: 3
- SPMT 369 - Sport Budgeting and Finance Credits: 3
- SPMT 386 - Leadership in Athletic Administration and Sport Management Credits: 3
- SPMT 394 - Sport Marketing Credits: 3
- SPMT 396 - Selling in the Sport Industry Credits: 3
- SPMT 406 - Sport Fundraising and Event Management Credits: 3
- SPMT 450 - Sport Management Internship Credits: 3 to 12 Credits: 12
- SPMT 486 - Sport Law and Facilities Credits: 3
- SPMT 494 - Sport Management Senior Seminar Credits: 3
- SPMT 499 - Sport Management Research Methods Credits: 3

Sport Management Electives - Credits: 15

Select 15 credit hours of 300 level (or above) classes. The Department of Sport Management recommends courses to be taken from Accounting, Communication, Economics, Finance, Management or Marketing. Students can also choose from INDP 205. This will help you complete a minor if you are interested. See your Rock Audit for details.

Additional Requirements

Comprehensive Exam

Required to pass the Senior Comprehensive Exam prior to internship

Required Volunteer Hours

Volunteer Hours - 120 hours minimum

Required First Aid & CPR

Students must become certified in both First Aid & CPR. This can be accomplished by taking a course (Red Cross or YMCA) or by completing SAFE 205 (First Aid and Safety).

College of Education

105 McKay Education Building
724-738-2007

The mission of the Slippery Rock University College of Education is to prepare educators and related professionals for service in a diverse global community. Within this context, teaching, scholarship and service are viewed as a triad, in which teaching is enlightened by scholarship and applied through service.

Dean

A. Keith Dils

Assistant to the Dean

James Preston

Administrative Assistant

Karen Baker

Management Technician

Cathy Fuhs

Departments

Counseling and Development
Elementary Education/Early Childhood Education
Physical Education
Secondary Education/Foundations of Education
Special Education

Slippery Rock University of Pennsylvania has been preparing teachers since 1889, when it began as a state normal school and developed through the years as a state teachers college and state college. Now, as a unit within a multi-purpose university, the College of Education programs are one of the largest segments of the student population. The

near ideal enrollment of the college, the student/professor ratio, and dedication of the faculty enable us to continually prepare teachers for Pennsylvania, the nation, and the international community. The College consists of the departments of Counseling and Development, Elementary and Early Childhood Education, Physical Education, Secondary Education and Foundations of Education, and Special Education. In addition, School Nurse and Music Education are majors that lead to teacher certification, but are offered through other colleges within the university. These major fields of study are described as programs according to each administering department. The guidelines included below apply to all department programs; additional, more specific guidelines are provided for each individual program.

Teacher Education

The College of Education provides programs for the preparation of teachers for elementary and secondary schools. These programs are accredited by the National Council for the Accreditation of Teacher Education (NCATE), the respective learned societies (specialty program areas) for each program, the Middle States Association, and the Pennsylvania Department of Education. Additional certification programs (music education and school nurse) are offered in cooperation with the College of Humanities, Fine and Performing Arts and the College of Health, Environment and Science. However, within the College of Education is the certification officer for the University whose responsibility it is to review an individual's progress and recommend deserving candidates for teacher certification in Pennsylvania.

Admission to Teacher Education

Although freshmen and transfer students may declare a major in education, students are not considered education majors until they have been admitted to the teacher education program (teacher candidacy). The following are the requirements for admission to the teacher education program: completion of 48 semester hours of credit including six credits of college level mathematics and six credits of English composition/literature; demonstration of competency in basic skills (ex. PAPA, SAT, ACT exams or being a postbaccalaureate student). (These criteria are established through the Pennsylvania Department of Education's Chapter 354). In addition, perspective students must complete a Diverse Classroom Observation assignment (see adviser for clarification), and have earned a 2.8 cumulative GPA. For additional requirements related to the admission to teacher education programs, students should consult the "Application for Admission to Teacher Candidacy" form available in their major department office. In addition, students must present evidence of a clear (**no record**) Act 34 (criminal record), Act 151 (child abuse), Act 24 (arrest/conviction report), Act 126 (child abuse recognition and reporting certificate), and FBI clearance (Act 114). Out-of-state students are also subject to background checks. Act 34 and Act 151 record checks are good for one year only. Detailed requirements and policies are described in the Teacher Education Policy Manual, which is available in the Dean's office or on the College of Education homepage.

Request for Accommodations: Student Teaching with Disabilities

The university follows guidelines, including the Americans with Disabilities Act, in accommodating students with disabilities. Inquiries related to special needs must be made early in the program to the Office of Social Equity, especially for those who may apply for student teaching. To be recommended for certification, a candidate must demonstrate the ability to perform essential functions required of all beginning teachers.

Student Teaching

A teacher candidate, having met or exceeded personal and program requirements at prescribed levels of competence, has earned the right to participate in student teaching. While student teaching, the teacher candidate experiences the comprehensive assessment of performance mandated in an approved certification program. The practical application of instruction and learning can be simulated in university classrooms, but not duplicated. A true test of relating theory into practice awaits each teacher candidate, assisted by a cooperating teacher and a university supervisor.

Completing the application for student teaching, the capstone experience, one year in advance, reserves the right of assignment for the qualified candidate. Applications for student teaching, signed by the candidate's adviser, are filed in McKay Education Building (MEB), room 105. Qualified applicants anticipate successful completion of all program courses with a grade of "C" or higher for certification prior to student teaching. The school district where a student teacher is placed may have additional requirements before a student can begin teaching, such as a tuberculin test, proof of insurance, etc. In addition, students must present current evidence of a clear **(no record)** Act 34 (criminal record), Act 151 (child abuse), Act 24 (arrest/conviction report), Act 126 (child abuse recognition and reporting certificate), and Act 114 (FBI clearance). Out-of-state students are also subject to background checks.

Actual registration for student teaching takes place early in the semester preceding the experience. Beginning with mandatory attendance at the student teaching orientation meeting, students are acquainted with policies and procedures including automated registration.

The university student teaching supervisors service a large geographical area. However, the area serviced in any particular semester varies according to candidate placements and supervisor availability. In the student teaching semester, candidates are responsible for their own housing and transportation to assignments in school districts and should realize that this will be an added expense to the cost of a university education. A student teaching handbook is made available at the beginning of the student teaching semester in the opening seminar. Additional policies and procedures are described in the Teacher Education Policy Manual.

Placement of Student Teachers

Students are permitted to make several suggestions for districts, in close proximity to permanent or temporary residences, in which they may be assigned to student teach. These suggestions are non-binding to the university, but helpful as one variable in the assignment of student teaching sites. Transportation to the student teaching site is an individual's responsibility.

Certification

A baccalaureate degree is a requirement for Pennsylvania certification and requires successful completion of a minimum of 120 credits, including the liberal studies requirements. However, in some instances, a degree may be awarded without recommendation for certification. A recommendation for the Instructional I (Provisional) certificate requires satisfactory completion of an approved program which includes a 16 week student teaching experience, while satisfying general graduation requirements, the required 3.0 GPA for certification and a passing score on the PRAXIS II, PECT, ACTFL (OPI & WPT) examination(s) in the candidate's content area. Students meeting all requirements for certification will apply for certification through the Teacher Information Management System (TIMS) at www.pa-tims.com.

Interstate Reciprocity

Although some states have not formally agreed to reciprocity, the Pennsylvania certificate has been honored by most states.

Certification Test Results

The following information is presented in accordance with the Title II Higher Education Act of 1998 and is a result of the most recent Praxis results (2012-2013). While the Commonwealth of Pennsylvania mandates that candidates who are recommended for certification must have passing scores on the Praxis, PECT, and ACTFL exams, SRU, unlike some other teacher preparation institutions, does not withhold candidate graduation until Praxis/PECT or ACTFL tests are passed.

Area Pass Rate	SRU	PA
Basic Skills		
PPST Reading	100%	99%
PPST Writing	100%	97%
PPST Mathematics	100%	98%
Academic Content Areas		
Elementary Ed Curr. Instruction Assessment	88%	88%
Early Childhood Education	100%	98%
English Language Lit Comp Content Knowledge	90%	94%
Social Studies Content Knowledge	84%	89%
Music Content Knowledge	83%	96%
SE Core Knowledge	99%	99%
Fundamental Subjects	97%	97%
Other Content Areas		
Health and Physical Education	100%	100%
French Content Knowledge*	*	75%
Spanish Content Knowledge*	*	73%
Biology Content Knowledge*	*	98%
Chemistry Content Knowledge*	*	89%
Physics Content Knowledge*	*	90%
General Science Content Knowledge*	*	95%
Earth Science Content Knowledge*	*	92%

* Fewer than 10 students took this test during the academic year, therefore, there is no report of their pass rate.

Post-baccalaureate Students

Individuals who have earned a baccalaureate degree from an accredited institution may qualify for initial certification or an endorsement to an existing teaching certificate by completing prescribed requirements in one or more of the approved undergraduate programs.

An application for a post-baccalaureate (post-bac) program must be submitted to the university's Undergraduate Admissions Office where the candidates' previous work is reviewed. Following this review, the candidate will be notified of his/her admission status. Work that is dated, especially in pedagogy, may not be accepted and the candidate may be required to retake such courses. Candidates accepted for admission as post-bac students will be informed of program requirements to be completed to obtain certification in the desired area. Admission to post-bac study requires a minimum undergraduate GPA (Quality Point Average) for admission. Those who do not have the minimum GPA may apply for "conditional" admission provided they meet the requirement as set forth in the Teacher Education Policy Manual: <http://www.sru.edu/academics/colleges/education/Pages/FormsandDocuments.aspx>. In addition to the GPA requirement, post-baccalaureate students must submit proof of clear (**no record**) Acts 34 (criminal record), 151 (child abuse), Act 24 (arrest/conviction report), Act 126 (child abuse recognition and reporting certificate), and Act 114 (FBI clearance). for admission and maintain clear records throughout the program. Out-of-state students are also subject to background checks. These record checks are good for one year only. A field experience is required so the candidate's teaching ability may be observed and evaluated in the area for which initial certification or added endorsement is sought. In addition, post baccalaureate students must have the Praxis II/ PECT prior to student teaching (if required). Those who do not pass the Praxis II/ PECT in their content area must show evidence that they are enrolled in an appropriate remediation program as determined by the Assistant to the Dean prior to student teaching.

Benefits of post-baccalaureate work include: earning an initial or additional certification, obtaining an additional degree, making a certificate permanent, or personal enrichment. At the start of the post-baccalaureate education, candidates must state their intention for their program. Those candidates pursuing an additional degree must earn a minimum of 30 credits beyond their initial baccalaureate degree. To add an additional major or minor to an existing baccalaureate degree requires earning an additional degree.

Admission to all programs is determined on a space available basis and some programs may not be open to admission. Candidates are encouraged to speak to the chair of the department in which the certificate they intend to pursue is housed to ascertain departmental admissions procedures.

Counseling & Development

Office: 104 Carruth-Rizza Hall

Phone: 724-738-2035

Counseling & Development

The Department of Counseling and Development trains practitioners to deliver quality services to clients and students and to be reflective, ethical and competent in serving their diverse community. Department programs include Clinical Mental Health Counseling, Student Affairs in Higher Education, College Counseling and School Counseling. Our students are prepared according to professionally accepted standards and, where appropriate, for licensure / certification in their field of study.

The Student Counseling Center is also part of the Department of Counseling and Development. For information regarding the Student Counseling Center see the Student Counseling Center link.

Chair

Donald A. Strano

Secretary

Lorraine Vinski

Faculty

Chris Cubero, Jane Hale, Michael Ignelzi, Stacy Jacob, Molly Mistretta, Melissa Nard, Lisa Osachy, Mary Frances LeClair, Donald Strano

For description of graduate programs see the Graduate Catalog.

Elementary Education/Early Childhood

Elementary Education/Early Childhood

Office: 104 McKay Education Building
Phone: 724-738-2042

Chair

Mary T. Vetere

Assistant Chair

Rose Heilman-Houser

Secretary

Brenda Fedokovitz

Faculty

Monique Alexander, Michelle Amodei, Carmine DeCarlo, Rose Heilman-Houser, Laura Kelley, Suzanne Rose, Anne Slanina, Robert Snyder, Sara Tours, Mary Vetere, Christine Walsh, Deborah Wells, Judy Werner and Linda Zane

The Department of Elementary/Early Childhood Education's mission statement is aligned with and reflective of the College mission, but is designed to specify the particular goals of the program. The goal of the Elementary Education/Early Childhood Department is to equip our graduates to meet the professional challenges of classrooms and school communities for the 21st century.

The Department of Elementary Education/Early Childhood offers an undergraduate certification program in Early Childhood Education (PK-4). Prospective early childhood teachers take balanced course work that provides a broad educational experience. Included are liberal studies courses as well as both professional and elementary/ early childhood education courses. Students (in this certification area) are required to complete field observation hours within course context with young children in a diverse setting. This early experience is followed by numerous field experiences in early childhood and elementary classrooms at the sophomore and junior year as well as student teaching during the senior year. Students are offered the opportunity to complete part of their student teaching in an international or urban setting. The primary objective of the elementary/early childhood education program is to develop competent, caring and effective state-of-the-art teachers, prepared to teach each child to high standards.

Multiple Certification Programs

While not required, it is strongly recommended that students complete a second area of certification, a minor, or an area of concentration in addition to elementary education. Our students have completed additional certifications in early childhood education, special education, environmental education and modern languages. Students have also minored in many areas including dance, history, math and Spanish. Students seeking multiple certifications should declare their intent as early as possible in their academic career and recognize that this may require additional credits beyond those required for the baccalaureate degree. Students seeking multiple certifications may expect to complete student teaching experiences in each of the certification areas. We also offer a Letter of Completion for teaching online and an international teaching track. Specific requirements for additional certification, minors, and areas of concentration are available from advisers and the Department of Elementary Education/Early Childhood office, room 104 McKay

Education Building. Students are encouraged to work closely with their academic adviser in choosing and declaring these other options.

Post-Baccalaureate Programs

Persons possessing a bachelor's degree may apply for admission to the post-baccalaureate program leading to early childhood education certification. This program is designed for those who have completed degree requirements in a non-education major or who desire a second certification after graduation.

The post-baccalaureate program includes up to 80 credits of coursework for non-licensed applications, with an accelerated program for middle-level or special education certified applicants and a required practicum. The practicum must be completed in an elementary/early childhood classroom under the supervision of a university faculty member, even if the student is certified in another area.

Early Childhood Ed (PK-4)/Special Ed (K-12)-International Education

Early Childhood Ed (PK-4)/Special Education (K-8) - International Education

Students who elect to complete Early Childhood Ed (PK-4)/Special Education (K-8) - International Education will choose from already established liberal studies courses that focus on international and global perspectives. They will also complete a care break, spring break trip, or field experience in an international setting. The capstone will be the completion of an international student teaching experience.

All candidates completing this program and student teaching are eligible to receive Pennsylvania certification after achieving a passing or qualifying score on Pennsylvania Department of Education required exam(s). If you are interested in teaching in another state, please contact the Department of Education in that state.

Early Childhood Ed (PK-4)/Special Ed (K-12) - Intl Track - Credits: 95

Early Childhood Education Courses - Credits: 21

Courses may be taken prior to admittance to College of Education

- ELEC 100 - Early Childhood Education Theory & Practice Credits: 3
- ELEC 200 - Child Development Typical Credits: 3
- ELEC 405 - Overview of Global Education & Issues Credits: 3
- SPED 121 - High Incidence Disabilities Credits: 3
- SPED 122 - Low Incidence Disabilities Credits: 3
- SPED 230 - Developmental Disorders Credits: 3
- PE 243 - Educational Movement in Health & Wellness Credits: 3
- OR
- DANC 223 - Creative Dance for Children Credits: 2

Diversity Block - Credits: 9

- ELEC 230 - Field-Based Child Development Typical Credits: 3
- ELEC 237 - ELL Strategies and Practice for Early Childhood Education Credits: 3

- ELEC 281 - Family and Community Diversity and Partnerships Credits: 3

Early Literacy Block - Credits: 6

- ELEC 238 - Literacy Practices for the Emergent Learner(PreK-grade 1) Credits: 3
- ELEC 285 - Integrating Creative Expression through the Arts Credits: 3

Block 1 - Credits: 13

- ELEC 311 - Mathematics & Literacy Teaching Lab Pre K - 4 Credits: 1
- ELEC 316 - Developmental Formal & Informal Assessment Credits: 3
- ELEC 330 - Literacy Practices for the Developing Learner, Grades 2 - 4 Credits: 3
- ELEC 340 - Mathematics Methods and Strategies for PRE K - 4 Teachers Credits: 3
- SPED 325 - Interventions in the Inclusive Classroom Credits: 3 (becoming SPED 350 Fall 2020)

Block 2 - Credits: 15

- ELEC 420 - Early Childhood Field Experience Credits: 3
- ELEC 460 - Instructional Strategies for Science and Technology Credits: 3
- ELEC 470 - Social Studies & Citizenship Credits: 3
- ELEC 480 - Assessment for Differentiation of Literacy Instruction Credits: 3
- SPED 430 - Positive Behavior Strategies Credits: 3 (becoming SPED 360 Fall 2020)

Block 3 - Credits: 18

- SPED 326 - Special Education Law and Procedures Credits: 3 (becoming SPED 435 Fall 2020)
- SPED 431 - Behavior Disorders and Autism Credits: 3
- SPED 432 - Intervention in the Content Areas Credits: 3
- SPED 433 - Assessment Strategies in Special Education Credits: 3
- SPED 434 - Professional Collaboration and Ethical Practices Credits: 3
- SPED 436 Intensive Mathematics Interventions Credits: 3

Student Teaching - Credits: 13

Student teaching must be done in Ireland or Mexico

- SPED 440 Seminar in Special Education Credits: 1
- to be taken for 6 credits SPED 455 - Student Teaching - Special Education Credits: 3 to 12
- to be taken for 6 credits ELEC 455 - Student Teaching: Early Childhood Credits: 12

Other International Track Requirements

Must complete one (1) spring break, care break, or early childhood field experience in an international setting.

Early Childhood Education (PK-4)/Special Education (K-12)

Elementary Education/ Early Childhood Education Department

The university is authorized by the Pennsylvania Department of Education to provide certification courses and practical experiences designed to meet requirements for the Cognitive, Behavioral, and Physical Disabilities (CBPD) certificate in special education. The teaching certificate enables graduates to teach children identified as having mental retardation, learning disabilities, physical disabilities, or behavior disorders in school placements from kindergarten through grade twelve.

While students may declare the major in special education and work for a single teaching certificate (CBPD), most students opt for the dual certification program. Students may declare the major in special education and work for a single teaching certificate, the comprehensive M/PH certificate. Students may declare the special education/elementary education major and study for elementary education teacher certification and special education certification. The special education/elementary education certification program includes credits beyond the minimum required for the baccalaureate degree. The Teacher Education Policy Manual describes procedures for students interested in pursuing multiple teaching certificates.

An integral component of pre-professional programs in special education is the requirement of a practicum experience for credit. Practicum is part of the Special Education Professional Semester which integrates strategy courses with a field experience in local school districts.

All candidates completing this program and student teaching are eligible to receive Pennsylvania certification after achieving a passing or qualifying score on Pennsylvania Department of Education required exam(s). If you are interested in teaching in another state, please contact the Department of Education in that state.

Requirements for the Major - Credits: 95

The specific course of study and requirements leading to teacher certification in special education are available in the Department of Special Education or from the student's advisor. See also Teacher Education Policy Manual, available in 105 McKay Education Building or on the College of Education homepage.

Foundations - Credits: 21

- ELEC 100 - Early Childhood Education Theory & Practice Credits: 3
- ELEC 200 - Child Development Typical Credits: 3
- ELEC 348 - Leadership, Advocacy & Program Development Credits: 3
- SPED 121 - High Incidence Disabilities Credits: 3
- SPED 122 - Low Incidence Disabilities Credits: 3
- SPED 230 - Developmental Disorders Credits: 3
- PE 243 - Educational Movement in Health & Wellness Credits: 3
- OR
- DANC 223 - Creative Dance for Children Credits: 2

Diversity Block - Credits: 9

- ELEC 230 - Field-Based Child Development Typical Credits: 3

- ELEC 237 - ELL Strategies and Practice for Early Childhood Education Credits: 3
- ELEC 281 - Family and Community Diversity and Partnerships Credits: 3

Early Literacy Block - Credits: 6

- ELEC 238 - Literacy Practices for the Emergent Learner(PreK-grade 1) Credits: 3
- ELEC 285 - Integrating Creative Expression through the Arts Credits: 3

Block 1- Credits: 13

- ELEC 311 - Mathematics & Literacy Teaching Lab Pre K - 4 Credits: 1
- ELEC 316 - Developmental Formal & Informal Assessment Credits: 3
- ELEC 330 - Literacy Practices for the Developing Learner, Grades 2 - 4 Credits: 3
- ELEC 340 - Mathematics Methods and Strategies for PRE K - 4 Teachers Credits: 3
- SPED 325 - Interventions in the Inclusive Classroom Credits: 3 (becoming SPED 350 Fall 2020)

Block 2 - Credits: 15

- ELEC 420 - Early Childhood Field Experience Credits: 3
- ELEC 460 - Instructional Strategies for Science and Technology Credits: 3
- ELEC 470 - Social Studies & Citizenship Credits: 3
- ELEC 480 - Assessment for Differentiation of Literacy Instruction Credits: 3
- SPED 430 - Positive Behavior Strategies Credits: 3 (becoming SPED 360 Fall 2020)

Block 3 - Credits: 18

- SPED 326 - Special Education Law and Procedures Credits: 3 (becoming SPED 435 Fall 2020)
- SPED 431 - Behavior Disorders and Autism Credits: 3
- SPED 432 - Intervention in the Content Areas Credits: 3
- SPED 433 - Assessment Strategies in Special Education Credits: 3
- SPED 434 - Professional Collaboration and Ethical Practices Credits: 3
- SPED 436 Intensive Mathematics Interventions Credits: 3

Student Teaching - Credits: 13

All coursework in previous areas must be completed prior to Student Teaching

- SPED 440 Seminar in Special Education Credits: 1
- ELEC 455 - Student Teaching: Early Childhood Credits: 12
- SPED 455 - Student Teaching - Special Education Credits: 3 to 12

Early Childhood Education PK-4

Elementary/Early Childhood Education

All candidates completing this program and student teaching are eligible to receive Pennsylvania certification after achieving a passing or qualifying score on Pennsylvania Department of Education required exam(s). If you are interested in teaching in another state, please contact the Department of Education in that state.

Major Requirements - Credits: 69-70

Early Childhood Education Courses - Credits: 11-12

Courses may be taken prior to admittance to College of Education

- ELEC 100 - Early Childhood Education Theory & Practice Credits: 3
- ELEC 200 - Child Development Typical Credits: 3
- PE 243 - Educational Movement in Health & Wellness Credits: 3
- SPED 121 - High Incidence Disabilities Credits: 3

Diversity Block - Credits: 9

- ELEC 230 - Field-Based Child Development Typical Credits: 3
- ELEC 237 - ELL Strategies and Practice for Early Childhood Education Credits: 3
- ELEC 281 - Family and Community Diversity and Partnerships Credits: 3

Early Literacy Block - Credits: 6

- ELEC 238 - Literacy Practices for the Emergent Learner(PreK-grade 1) Credits: 3
- ELEC 285 - Integrating Creative Expression through the Arts Credits: 3

Block 1 - Credits: 13

Must be admitted to Teacher Candidacy and have completed both Diversity and Early Literacy blocks

- ELEC 316 - Developmental Formal & Informal Assessment Credits: 3
- ELEC 311 - Mathematics & Literacy Teaching Lab Pre K - 4 Credits: 1
- ELEC 330 - Literacy Practices for the Developing Learner, Grades 2 - 4 Credits: 3
- ELEC 340 - Mathematics Methods and Strategies for PRE K - 4 Teachers Credits: 3
- SPED 325 - Interventions in the Inclusive Classroom Credits: 3

Block 2 - Credits: 15

Must complete Block 1 before proceeding to Block 2

- ELEC 420 - Early Childhood Field Experience Credits: 3
- ELEC 460 - Instructional Strategies for Science and Technology Credits: 3
- ELEC 470 - Social Studies & Citizenship Credits: 3
- ELEC 480 - Assessment for Differentiation of Literacy Instruction Credits: 3
- SPED 430 - Positive Behavior Strategies Credits: 3

Other Required Coursework for Graduation - Credits: 15

Other requirements for certification and graduation are available in the College of Education

- ELEC 348 - Leadership, Advocacy & Program Development Credits: 3
- ELEC 455 - Student Teaching: Early Childhood Credits: 12

Education - PK-4 Early Childhood Education - International Track

Elementary/Early Childhood Education

All candidates completing this program and student teaching are eligible to receive Pennsylvania certification after achieving a passing or qualifying score on Pennsylvania Department of Education required exam(s). If you are interested in teaching in another state, please contact the Department of Education in that state.

Major Requirements - Credits: 69-70

Early Childhood Education Courses - Credits: 11-12

Courses may be taken prior to admittance to College of Education

- ELEC 100 - Early Childhood Education Theory & Practice Credits: 3
- ELEC 200 - Child Development Typical Credits: 3
- DANC 223 - Creative Dance for Children Credits: 2
- OR
- PE 243 - Educational Movement in Health & Wellness Credits: 3
- SPED 121 - High Incidence Disabilities Credits: 3

Diversity Block - Credits: 9

- ELEC 230 - Field-Based Child Development Typical Credits: 3
- ELEC 237 - ELL Strategies and Practice for Early Childhood Education Credits: 3
- ELEC 281 - Family and Community Diversity and Partnerships Credits: 3

Early Literacy Block - Credits: 6

- ELEC 238 - Literacy Practices for the Emergent Learner(PreK-grade 1) Credits: 3
- ELEC 285 - Integrating Creative Expression through the Arts Credits: 3

Block 1 - Credits: 13

Must be admitted to Teacher Candidacy and have completed both Diversity and Early Literacy blocks

- ELEC 311 - Mathematics & Literacy Teaching Lab Pre K - 4 Credits: 1
- ELEC 330 - Literacy Practices for the Developing Learner, Grades 2 - 4 Credits: 3

- ELEC 316 - Developmental Formal & Informal Assessment Credits: 3
- ELEC 340 - Mathematics Methods and Strategies for PRE K - 4 Teachers Credits: 3
- SPED 325 - Interventions in the Inclusive Classroom Credits: 3

Block 2 - Credits: 15

Must complete Block 1 before proceeding to Block 2.

- ELEC 420 - Early Childhood Field Experience Credits: 3
- ELEC 460 - Instructional Strategies for Science and Technology Credits: 3
- ELEC 470 - Social Studies & Citizenship Credits: 3
- ELEC 480 - Assessment for Differentiation of Literacy Instruction Credits: 3
- SPED 430 - Positive Behavior Strategies Credits: 3

Other Required Coursework - Credits: 15

Student Teaching must be done in Mexico or Ireland.

- ELEC 405 - Overview of Global Education & Issues Credits: 3
- ELEC 455 - Student Teaching: Early Childhood Credits: 12

Other International Track Requirements

Must complete one (1) spring break, care break, or early field in an international setting.

Physical and Health Education

Physical and Health Education

Office: 109 Morrow Field House

Phone: 724-738-2072

Vision for the future—What our students will do

Graduates of the SRU Physical and Health Education Department will be leaders who educate and empower individuals to be physically active and healthy and who advocate the benefits associated with a healthy lifestyle.

Mission-Current—Day to Day—What we do

Prepare graduates who are passionate about health, physical activity and fitness, to promote lifelong physical activity, cognitive function, and overall physical wellness.

Chair

Joanne Leight

Secretary

Sherri Novad

Faculty

Robert Arnhold, Wei Bian, Hannah Brewer, Gary Clark, Wendy Fagan, Ethan Hull, Dallas Jackson, Istvan Kovacs, Joanne Leight, Wenhao Liu, Randall Nichols, Robert Ogoreuc, Jeffrey Smith, Traci Zillifro

The Department of Physical and Health Education offers a major degree program in Health and Physical Education. The two tracks are:

- School Wellness Education - Teacher Certification Program that prepares students to teach both health and physical education in grades K-12
- Physical Activity and Fitness Management that prepare students to teach, lead and manage physical activity and fitness in community and commercial settings

Statistics project the employment of health and wellness educators will grow faster than the average for all occupations for the foreseeable future. These careers continue to grow as a direct result of healthcare costs and increasing need for awareness of disease prevention and health promotion. This results in the need for *Aquatic Professionals - Adapted Physical Activity Professionals - Outdoor Professionals - and Coaching Education Professionals*.

Students are also encouraged to include an additional minor in one of the following: aquatics or coaching. The total program is designed to provide a comprehensive knowledge base in health and physical education pedagogy.

Certificate in Living Well

The Living Well certificate will provide the opportunity for students at Slippery Rock University to gain knowledge in how and why to live a healthy and active life. The importance of individuals engaging in healthy lifestyles along with the consequences of those who do not has been documented in the past five years. Students will understand the impact these consequences at both individual and societal levels.

Certificate in Living Well - Credits: 12

- ERS 230 - Stress Management Credits: 3
- HLTH 314 - Nutrition and Health Credits: 3
- PE 342 - Wellness through Movement Credits: 3
- PE 430 - Living Well Credits: 3

Certificate in Teaching Health and Physical Education On-line

The Physical and Health Education Certificate in Teaching Health and Physical Education (H/PE) on-line will be offered on-line through distance education. The Certificate is designed to enhance the teacher's ability to effectively teach health and physical education through distance education and best practices. Courses will be offered winter and summer sessions.

Required Courses - Credits: 12

- PE 302 - Foundations of Online Teaching and Learning Credits: 3
- PE 303 - Using Educational Technology to Enhance Learning Credits: 3
- PE 304 - Teaching Physical Education through Distance Education Credits: 3
- PE 305 - Teaching Health Education through Distance Education Credits: 3

Health and Physical Education (BSED) - Physical Activity and Fitness Management - Credits: 60

Physical and Health Education

The Physical Education - Physical Activity and Fitness Management track will prepare professionals to plan, implement, and evaluate physical activity programs outside of the school environment. The physical activity and fitness management track has intellectual value in academia while addressing emerging regional and national employment trends, student interests and preferences, and community need. The uniqueness of this track centers around a personnel preparation core combined with students preferred choice of two of five well-established and emerging specialty areas.

All candidates completing this program and student teaching are eligible to receive Pennsylvania certification after achieving a passing or qualifying score on Pennsylvania Department of Education required exam(s). If you are interested in teaching in another state, please contact the Department of Education in that state.

Professional Core - Credits: 24

- PE 131 - Foundations of Leadership in Physical Activity Credits: 3
- PE 231 - Strategies for Teaching Physical Activity Credits: 3
- PE 202 - Technology for Wellness Credits: 3
- PE 331 - Evidence-based Physical Activity Practices Credits: 3
- PE 332 - Administration and Management of Physical Activity Programs Credits: 3
- PE 473 - Professionalism, Advocacy, and Leadership in Physical Activity Credits: 3
- PE 450 - Internship in Physical Activity Credits: 1 to 12

Fitness / Health - Credits: 12

- PE 242 - Physical Health and Fitness Education Credits: 3
- PE 268 - Contemporary Topics in Health Credits: 3
- PE 335 - Science of the Mind-Body Connection Credits: 3
- PE 360 - Anatomical and Physiological Bases of Physical Activity Credits: 3

Professional Interest Areas - Credits: 24

Select two blocks from A, B, C, D, E

BLOCK A: Adapted Physical Activity - Credits: 12

Required Courses - Credits: 9

- PE 227 - Introduction to Adapted Physical Activity Credits: 3
- PE 353 - Adapted Physical Activity and Health through the Lifespan Credits: 3
- PE 460 - Program Design in Adapted Physical Activity Credits: 3

Select a minimum of 3 credits from the following:

- PE 262 - Adapted Aquatics Credits: 3
- PE 266 - Disability Sport in the 21st Century: A Global Perspective Credits: 3

BLOCK B: Aquatics - Credits: 12

Required Courses - Credits: 8

- PE 107 - Aquatic Fundamentals Credits: 3
- PE 348 - Aquatic Leadership Credits: 2
- PE 446 - Water Safety Instruction Credits: 3

Select minimum of 4 credits from the following:

- PE 123 - Stand-Up Paddleboarding Credits: 2
- PE 189 - Basic Canoeing Credits: 2
- PE 236 - Introduction to Kayaking Credits: 2
- PE 237 - Emergency Medical Response Credits: 3
- PE 262 - Adapted Aquatics Credits: 3
- PE 263 - Lifeguarding Credits: 3
- PE 345 - Teaching and Coaching of Water Polo Credits: 3
- PE 349 - Skin and Scuba Diving Credits: 3
- PE 363 - Lifeguarding Instructor Credits: 3

BLOCK C: Outdoor Adventure Fitness - Credits: 12

Required Courses - Credits: 6

- PE 241 - Outdoor Pursuits Credits: 3
- PE 334 - Applied Methodologies in Adventure Activities Credits: 3

Select minimum of 6 credits from the following:

- PE 123 - Stand-Up Paddleboarding Credits: 2
- PE 125 - Bicycling Credits: 2
- PE 182 - Introduction to Rock Climbing Credits: 1
- PE 186 - Cross Country Skiing Credits: 2
- PE 236 - Introduction to Kayaking Credits: 2

- PE 272 - Enhancing Fitness through Running and Walking Credits: 2
- PE 276 - Skate-Based Action Sports Credits: 2
- PE 349 - Skin and Scuba Diving Credits: 3

BLOCK D: Coaching Education - Credits: 12

Required Courses - Credits: 9

- PE 270 - Psychological and Sociological Bases of Sport Credits: 3
- PE 306 - Conditioning for Athletic Performance Credits: 3
- PE 369 - Philosophy and Psychology of Coaching Credits: 3

Select minimum of 3 credits from the following:

- PE 230 - Teaching and Coaching of Track and Field Credits: 3
- PE 237 - Emergency Medical Response Credits: 3
- PE 238 - Applied Principles of Exercise Credits: 3
- PE 266 - Disability Sport in the 21st Century: A Global Perspective Credits: 3
- PE 301 - Sports Officiating Credits: 3
- PE 338 - Teaching and Leading Group Exercise Credits: 3
- PE 356 - Net/Wall Activities and Games Credits: 3
- PE 358 - Lifetime/Leisure Activities and Games Credits: 3
- PE 378 - Teaching and Leading of Strength/Resistance Training Credits: 3

BLOCK E: Fitness - Credits: 12

- PE 238 - Applied Principles of Exercise Credits: 3
- PE 393 Nutrition for Physical Activity, Exercise, and Health Credits: 3
- PE 338 - Teaching and Leading Group Exercise Credits: 3
- PE 378 - Teaching and Leading of Strength/Resistance Training Credits: 3
- PE 379 - Fitness Management Credits: 3

Minor in Adapted Physical Activity - Credits: 18

Physical and Health Education

Adapted Physical Activity

The Adapted Physical Activity program is a minor designed to prepare students in exercise science, teacher education, therapeutic recreation, and athletic training programs to assess, develop, implement, and evaluate programs of physical education and fitness exercise for individuals with disabilities. The Americans with Disabilities Act (ADA) and the Individuals with Disabilities Education Act (IDEA) are two federal laws that provide access and education to all walks of life for people with disabilities. This will result in an increase of participation and subsequent knowledge for planning appropriate programs for individuals with disabilities.

Employers in school districts, fitness agencies, and sport organizations are actively recruiting individuals with experience working with people with disabilities. Graduates of the program have been extremely successful securing jobs in their chosen fields or receiving acceptance into graduate programs in adapted physical activity, physical therapy, or other related professions.

Students will acquire knowledge and skills through a comprehensive program of class and practical experiences in this 27-credit program. Students can also take advantage of participating in state and national conferences, developing grant writing skills and supervisory roles in one or more of the community service-learning practical programs.

*Students entering the MS degree will earn 21 credits in the minor. ERS463 and ERS468 will count toward graduate credits as ERS663 and ERS668.

Requirements for the Minor in Adapted Physical Activity

Required Courses - Credits: 18

- PE 227 - Introduction to Adapted Physical Activity Credits: 3
- PE 262 - Adapted Aquatics Credits: 3
- PE 266 - Disability Sport in the 21st Century: A Global Perspective Credits: 3
- PE 460 - Program Design in Adapted Physical Activity Credits: 3
- PE 473 - Professionalism, Advocacy, and Leadership in Physical Activity Credits: 3

Minor in Adventure Fitness - Credits: 18

Physical and Health Education

Adventure Fitness Required Courses - Credits: 12

- PE 241 - Outdoor Pursuits Credits: 3
- PE 332 - Administration and Management of Physical Activity Programs Credits: 3
- PE 334 - Applied Methodologies in Adventure Activities Credits: 3
- PE 342 - Wellness through Movement Credits: 3

Adventure Fitness Elective Courses - Credits: 6

Choose 6 credits from the following:

- PE 123 - Stand-Up Paddleboarding Credits: 2
- PE 125 - Bicycling Credits: 2
- PE 182 - Introduction to Rock Climbing Credits: 1
- PE 186 - Cross Country Skiing Credits: 2
- PE 236 - Introduction to Kayaking Credits: 2
- PE 272 - Enhancing Fitness through Running and Walking Credits: 2
- PE 276 - Skate-Based Action Sports Credits: 2
- PE 349 - Skin and Scuba Diving Credits: 3

Minor in Aquatics

Physical Education Department

It is the student's responsibility to meet the requirements as outlined herein. The faculty advisor for the Aquatics minor, Mr. Robert E. Ogoreuc, will offer assistance.

Requirements for the Minor - Credits: 19

Aquatics Required Classes - Credits: 12

- PE 107 - Aquatic Fundamentals Credits: 3
- PE 262 - Adapted Aquatics Credits: 3
- PE 263 - Lifeguarding Credits: 3
- PE 348 - Aquatic Leadership Credits: 2

Aquatic Elective Courses - Credits: 2

Select two courses:

- PE 123 - Stand-Up Paddleboarding Credits: 2
- PE 187 - Flat-water Canoe Tripping Credits: 1
- PE 189 - Basic Canoeing Credits: 2
- PE 236 - Introduction to Kayaking Credits: 2
- PE 237 - Emergency Medical Response Credits: 3
- PE 345 - Teaching and Coaching of Water Polo Credits: 3
- PE 349 - Skin and Scuba Diving Credits: 3

Aquatic Instructor Courses - Credits: 6

- PE 363 - Lifeguarding Instructor Credits: 3
- PE 446 - Water Safety Instruction Credits: 3

Minor in Coaching - Credits: 18

Physical and Health Education

Three semester hours of practicum experiences are required for the Minor in Coaching. Practicum experiences include working with one athletic team (college, high school, or community) for 50 hours. The student must complete three different experiences (one credit each), and PETE majors must complete all practicum experiences prior to student teaching. The student must have completed one coaching minor elective course prior to the first practicum experience.

Students must have current TB test and Act 34 and Act 151 Clearances FBI finger print check if coaching experiences take place in public schools.

Students must possess and maintain current Red Cross CPR for the Professional Rescuer and Community First Aid certifications.

Coaching Minor Requirements - Credits: 15

- PE 270 - Psychological and Sociological Bases of Sport Credits: 3
- PE 301 - Sports Officiating Credits: 3
- PE 306 - Conditioning for Athletic Performance Credits: 3
- PE 369 - Philosophy and Psychology of Coaching Credits: 3
- PE 378 - Teaching and Leading of Strength/Resistance Training Credits: 3

Required Practicum Experience - Credits: 3

- PE 166 - Coaching Practicum Credits: 1 (Must be taken 3 times)

Physical and Health Education Certification (Post-Baccalaureate Program)

Physical and Health Education Department

Requirements

Persons possessing a bachelor's degree may apply for admission to the post-baccalaureate program leading to health and physical education teacher certification. This program is designed for those who have completed degree requirements in a non-education major or who desire a second certification after graduation.

The post-baccalaureate program includes up to 96 credits of coursework, including a required student teaching experience.

School Wellness Education

All candidates completing this program and student teaching are eligible to receive Pennsylvania certification after achieving a passing or qualifying score on Pennsylvania Department of Education required exam(s). If you are interested in teaching in another state, please contact the Department of Education in that state.

School Wellness Education

GPA Requirement

GPA must be 2.8 or higher for Teacher Candidacy

A 3.0 GPA and passing subject area assessment (PECT) OR a 2.8 GPA and a qualifying passing subject area assessment (PECT) score (as determined by PDE) is required for certification.

PILLAR #1 - Teaching Excellence - Credits: 15

- PE 152 - Principles of School Wellness I Credits: 3

- PE 253 - Principles of School Wellness II Credits: 3
- PE 452 - Elementary Strategies for School Wellness Credits: 3
- PE 462 - Secondary Strategies in School Wellness Credits: 6

PILLAR #2 - Physical Health & Wellness - Credits: 21

- PE 107 - Aquatic Fundamentals Credits: 3
- PE 241 - Outdoor Pursuits Credits: 3
- PE 310 - Elementary School Wellness Skills and Fitness Activities Credits: 3
- PE 311 - Middle School Wellness Skills and Fitness Activities Credits: 3
- PE 312 - Secondary School Wellness Skills and Fitness Activities Credits: 3
- PE 328 - School Nutrition and Wellness Credits: 3
- PE 383 - Motor Development and Learning Credits: 3

PILLAR #3 - Social & Emotional Health & Wellness - Credits: 12

- PE 258 - Social & Emotional Wellness Credits: 3
- PE 360 - Anatomical and Physiological Bases of Physical Activity Credits: 3
- SEFE 326 - ELL Strategies and Practice Credits: 3
- SEFE 342 - Educational Psychology for Diverse Learners Credits: 3

PILLAR #4 - School to Community Health & Wellness - Credits: 12

- PE 191 - Foundations of School Wellness Credits: 3
- PE 227 - Introduction to Adapted Physical Activity Credits: 3
- PE 243 - Educational Movement in Health & Wellness Credits: 3
- PE 268 - Contemporary Topics in Health Credits: 3

PILLAR #5 - Professional Advocacy & Leadership in Health & Wellness - Credits: 21

- PE 202 - Technology for Wellness Credits: 3
- PE 472 - School Wellness Assessment and Promotion Credits: 3
- PE 473 - Professionalism, Advocacy, and Leadership in Physical Activity Credits: 3
- PE 455 - Student Teaching - Physical Education Credits: 12

First Aid Competency

CPR and First Aid & Safety Certifications or SAFE 205

Secondary Education/Foundations of Education

114 McKay Education Building
724-738-2041

Secondary Education/Foundations of Education

The Department of Secondary Education/Foundations of Education is committed to the development of professional educators through the careful integration of theory and practice. Moreover, it is SEFE's position that there is an inseparable fusion between teachers' professional identities and their personal identities. Teaching is a reflective process that takes place within a diverse social, economic, political, and cultural complex that mandates continual development of the teacher. Since teaching does not take place in a vacuum, it is part of our mission to provide opportunities for the total cognitive and affective development of our students so that they may become productive members of a teacher/ scholar community who will conduct research and disseminate knowledge that will enhance the education of students at all levels.

Chair

Edwin P. Christmann

Secretary

Germaine Newstrom

Faculty

Padma Anand, Edwin Christmann, John Hicks, Jason Hilton, Jeffrey Lehman, Junko Yamamoto

The mission of the department is to provide secondary education majors with the knowledge, and skills to succeed in today's changing classrooms. Moreover, the merging of theory with practice and the building of a solid background in foundations of education for all middle and secondary education majors are additional hallmarks.

Prospective secondary school teachers are required to take for certification, coursework in an academic discipline that is equivalent to a major in that discipline. Successful completion of a prescribed program and certification examinations are required for eligibility for certification by the Pennsylvania Department of Education.

A secondary education major is advised by a faculty member in the Department of Secondary Education/Foundations of Education. Students may choose to attain dual certification, that is, to become eligible to teach in more than one subject area. The decision to attempt this dual certification should be made as early as possible in order to facilitate scheduling. It is the responsibility of the students to understand the certification requirements and to schedule all required courses.

Requirements for the Bachelor of Science in Education

The department uses both state and national guidelines to continually update its accredited programs. Therefore, the specific course of study and the most recent requirements leading to teacher certification in this department are available in the departmental office or from the student's advisor. See also Teacher Education Policy Manual, available in 105 McKay Education Building and on the College of Education homepage. Areas of teacher certification in secondary education at the baccalaureate level include:

English
French
Social Studies - History
Spanish

Areas of teacher certification in middle level education at the baccalaureate level include:

English- Language Arts
Social Studies

Science
Mathematics

Areas of Teacher Certification in Secondary Education at the master's level:

Biology
Chemistry
Earth and Space Science
General Science
Mathematics
Physics
English
Social Studies

Certification in these latter areas is available **only** at the graduate level as part of the master of education degree program. For more information about this program, including prerequisites, contact the Secondary Education/Foundations of Education office in 114 McKay Education Building.

Education - English (BSEd)

Secondary Education/ Foundations of Education

This program track prepares students for careers teaching English in secondary schools. Requirements for the Major in Secondary Education (7-12) include a combination courses and student teaching experiences that lead to certification for a state-approved teaching license. All candidates completing this program and student teaching are eligible to receive Pennsylvania certification after achieving a passing or qualifying score on Pennsylvania Department of Education required exam(s). If you are interested in teaching in another state, please contact the Department of Education in that state.

Teacher Education Policy Manual

Major Requirements - Credits: 94

Some courses within the major requirements can also be used as Liberal Studies requirements. See Major Curriculum Guide.

Professional Education - 46 credits

SPED315 and SEFE455 are taken together in the student teaching semester.

- CDEV 248 - Human Development and Education Credits: 3
- SEFE 200 - Introduction to Education, Teaching Methods and Field Credits: 3
- SEFE 230 - Production and Utilization of Instructional Technology Credits: 3
- SEFE 370 - Educational Measurements, Assessment and Evaluation Credits: 3
- SEFE 320 - Teaching of Language Arts in Secondary Schools Credits: 3
- SEFE 326 - ELL Strategies and Practice Credits: 3
- SEFE 338 - Standards-Based Instruction & Assessment in the Inclusionary Classroom Credits: 3

- SEFE 342 - Educational Psychology for Diverse Learners Credits: 3
- SEFE 380 - History and Philosophy of Education Credits: 3
- SEFE 426 - Practicum in Secondary Education Credits: 1
- SEFE 455 - Student Teaching - Secondary Education Credits: 3 to 12
- SPED 121 - High Incidence Disabilities Credits: 3
- SPED 315 - Special Education Issues in Diverse Secondary Classrooms Credits: 3

Specialization (Major Certification Area) - Credits: 42

Writing Specialization: Required - 9 credits

- ENGL 204 - Composition and Rhetoric Credits: 3
- ENGL 235 - Writing for Non-Print Media Credits: 3
- ENGL 305 - Practicum: Teaching Writing Credits: 3

Language Requirement - 9 credits

- ENGL 230 - Introduction to Linguistics and Grammar Credits: 3
- ENGL 331 - Historical Development of the English Language Credits: 3
- ENGL 332 - Modern English Grammar and Syntax Credits: 3

Required English Courses - 24 credits

- ENGL 312 - Introduction to Shakespeare Credits: 3
- OR
- ENGL 389 - Stratford Shakespeare Tour Credits: 3
- ENGL 402 - World Literature Credits: 3
- ENGL 317 - British Literature I Credits: 3
- ENGL 318 - British Literature II Credits: 3
- ENGL 319 - American Literature I Credits: 3
- ENGL 320 - American Literature II Credits: 3
- ENGL 328 - Young Adult Literature Credits: 3
- ENGL 403 - Literary and Cultural Theory Credits: 3

Communication Courses - 6 credits

Some courses may be used in liberal studies and major.

- COMM 215 - Small Group Communication Credits: 3
- OR
- COMM 217 - Intercultural Communication Credits: 3
- COMM 263 - Mass Media and Society Credits: 3

Education - French (BSEd)

Secondary Education / Foundations of Education

This program track prepares students for careers teaching French in all school levels. Requirements for the Major in Secondary Education (K-12) include a combination of education courses and student teaching experiences that lead to certification for a state-approved teaching license. All candidates completing this program and student teaching are eligible to receive Pennsylvania certification after achieving a passing or qualifying score on Pennsylvania Department of Education required exam(s). If you are interested in teaching in another state, please contact the Department of Education in that state.

Teacher Education Policy Manual

Major Requirements - Credits: 76-82

Professional Education - Credits: 46

SEFE455 and SPED315 are taken together in the student teaching semester.

- CDEV 248 - Human Development and Education Credits: 3
- SEFE 200 - Introduction to Education, Teaching Methods and Field Credits: 3
- SEFE 230 - Production and Utilization of Instructional Technology Credits: 3
- SEFE 370 - Educational Measurements, Assessment and Evaluation Credits: 3
- SEFE 323 - Teaching World Languages Credits: 3
- SEFE 326 - ELL Strategies and Practice Credits: 3
- SEFE 338 - Standards-Based Instruction & Assessment in the Inclusionary Classroom Credits: 3
- SEFE 342 - Educational Psychology for Diverse Learners Credits: 3
- SEFE 380 - History and Philosophy of Education Credits: 3
- SEFE 426 - Practicum in Secondary Education Credits: 1
- SEFE 455 - Student Teaching - Secondary Education Credits: 3 to 12
- SPED 121 - High Incidence Disabilities Credits: 3
- SPED 315 - Special Education Issues in Diverse Secondary Classrooms Credits: 3

Secondary Content Area - French - Credits: 30-36

Basic Skills Courses - Credits: 0-15

Exemption is possible from these courses according to performance on the placement test. CLEP, AP, and OPI credits are accepted.

- FREN 101 - French Language and Culture I Credits: 3
- FREN 102 - French Language and Culture II Credits: 3
- FREN 103 - French Language and Culture III Credits: 3
- FREN 201 - French Conversation 1 Credits: 3
- FREN 220 - Reading in French Credits: 3

Required French Courses - Credits: 18

- FREN 300 - French Grammar and Composition 1 Credits: 3
- FREN 320 - Main Currents in French Literature Credits: 3

- FREN 350 - French Linguistics and Phonetics Credits: 3
- FREN 400 - French Grammar and Composition 2 Credits: 3

Choose one of the following conversation courses - Credits: 3

- FREN 301 - French Conversation 2 Credits: 3
- FREN 401 - French Conversation 3 Credits: 3

Choose one of the following civilization courses - Credits: 3

- FREN 305 - France through the Ages Credits: 3
- FREN 306 - France and Francophone Identities Today Credits: 3

French Electives

For students who exempt any of the Basic Skills courses. Any French course may be used in this block except FREN210. Choose as many electives as necessary to reach 30 total credits of French courses.

Education - Social Studies - History (BSEd)

Secondary Education / Foundations of Education

This program track prepares students for careers teaching Social Studies / History in secondary schools. Requirements for the Major in Secondary Education (7-12) include a combination of education courses and student teaching experiences that lead to certification for a state-approved teaching license. All candidates completing this program and student teaching are eligible to receive Pennsylvania certification after achieving a passing or qualifying score on Pennsylvania Department of Education required exam(s). If you are interested in teaching in another state, please contact the Department of Education in that state.

Teacher Education Policy Manual

Major Requirements - Credits: 103

Some courses within the major requirements can also be used as Liberal Studies requirements. See Major Curriculum Guide.

Professional Education - Credits: 43

SPED315 and SEFE455 are taken together in the student teaching semester.

- CDEV 248 - Human Development and Education Credits: 3
- SEFE 200 - Introduction to Education, Teaching Methods and Field Credits: 3
- SEFE 230 - Production and Utilization of Instructional Technology Credits: 3
- SEFE 370 - Educational Measurements, Assessment and Evaluation Credits: 3
- SEFE 319 - Teaching of Social Studies in Secondary Schools Credits: 3

- SEFE 326 - ELL Strategies and Practice Credits: 3
- SEFE 338 - Standards-Based Instruction & Assessment in the Inclusionary Classroom Credits: 3
- SEFE 380 - History and Philosophy of Education Credits: 3
- SEFE 426 - Practicum in Secondary Education Credits: 1
- SEFE 455 - Student Teaching - Secondary Education Credits: 3 to 12
- SPED 121 - High Incidence Disabilities Credits: 3
- SPED 315 - Special Education Issues in Diverse Secondary Classrooms Credits: 3

Choose two of the following World History courses - Credits: 6

- HIST 151 - Ancient and Medieval World Credits: 3
- HIST 152 - Rise of the Modern World Credits: 3
- HIST 153 - Contemporary World History Credits: 3

Choose two of the following US History courses - Credits: 6

- HIST 201 - Colonial America to 1815 Credits: 3
- HIST 202 - United States, 1815-1920 Credits: 3
- HIST 203 - U.S. History Since 1920 Credits: 3

Required Course - Credits: 3

- HIST 205 - The Historian's Craft Credits: 3

Secondary Education Social Studies Electives - Credits: 21

All grades must be "C" or above.

21 Credits from the group of American History, Non-Western History and European History. Each area must have a minimum of 6 credits and one area must have a minimum of 9 credits.

American History Electives - Credits: 6-9

Required PA History

- HIST 435 - Pennsylvania Credits: 3

American History - Credits: 3-6

Choose at least 3-6 credits from the following:

- HIST 304 - American Military History Credits: 3
- HIST 313 - U.S. Manhood and Masculinities Credits: 3
- HIST 323 - African American History to 1876 Credits: 3
- HIST 324 - African American History Since 1876 Credits: 3
- HIST 335 - Outstanding Americans Credits: 3

- HIST 337 - Native American History Credits: 3
- HIST 344 - The American City Credits: 3
- HIST 350 - The American Civil War Credits: 3
- HIST 351 - Latin America to 1830 Credits: 3
- HIST 352 - Latin America Since 1830 Credits: 3
- HIST 358 - American Popular Culture, 1865 to the Present Credits: 3
- HIST 437 - The American West Credits: 3
- HIST 445 - Americans and the Environment Credits: 3
- HIST 453 - American Constitutional History and Law Credits: 3
- HIST 336 - American Economic History Credits: 3
- HIST 364 - History of Medicine Credits: 3

Non-Western History - Credits: 6-9

Choose at least 6 credits from the following:

- HIST 362 - Africa North of the Zambezi Credits: 3
- HIST 363 - Southern Africa Credits: 3
- HIST 364 - History of Medicine Credits: 3
- HIST 370 - History and the Bible Credits: 3
- HIST 371 - History of Jews Credits: 3
- HIST 376 - Modern Japan Credits: 3
- HIST 380 - Egyptology Credits: 3
- HIST 381 - East Asian Military Traditions Credits: 3
- HIST 382 - Modern Asian Pacific Rim Credits: 3
- HIST 386 - Modern China Credits: 3
- HIST 390 - Experimental Credits: 1 to 3
- HIST 462 - The Contemporary Middle East Credits: 3
- HIST 463 - Israel - History, State, and Society Credits: 3

European History - Credits: 6-9

Choose at least 6 credits from the following:

- HIST 305 - Russia to 1855 Credits: 3
- HIST 306 - Russia Since 1855 Credits: 3
- HIST 319 - History of Women to 1750 Credits: 3
- HIST 331 - England to 1689 Credits: 3
- HIST 332 - Britain Since 1689 Credits: 3
- HIST 333 - Medieval Church Credits: 3
- HIST 346 - Rise of Imperial Britain Credits: 3
- HIST 347 - Twentieth Century British Culture Credits: 3
- HIST 364 - History of Medicine Credits: 3
- HIST 404 - Violence in Post-45 Europe Credits: 3
- HIST 422 - Ancient Greece Credits: 3
- HIST 424 - The Middle Ages Credits: 3
- HIST 426 - French Revolution and Napoleon Credits: 3
- HIST 427 - Nineteenth Century Europe Credits: 3

- HIST 464 - The Scientific Revolution of the 17th and 18th Centuries Credits: 3

Required courses outside History

The courses below may also be used in Liberal Studies. Always check with your Academic Adviser prior to scheduling.

Required Professional Studies Courses - Credits: 6

- INDP 106 - Race and Ethnic Diversity in the USA Credits: 3
- INDP 202 - Introduction to Anthropology Credits: 3

Required Economics Course - Credits: 3

- ECON 105 - Economics of Social Issues Credits: 3

Required Geography Courses - Credits: 6

Choose 2 Geography courses.

Required Political Science Courses - Credits: 6

POLS 101 is required and one other Political Science course.

- POLS 101 - American National Government Credits: 3

Required Psychology Course - Credits: 3

- PSYC 105 - Introduction to Psychology Credits: 3

Education - Spanish (BSEd)

Secondary Education / Foundations of Education: 76-88 credits

This program track prepares students for careers teaching Spanish in all school levels. Requirements for the Major in Secondary Education (K-12) include a combination of education courses and student teaching experiences that lead to certification for a state-approved teaching license. All candidates completing this program and student teaching are eligible to receive Pennsylvania certification after achieving a passing or qualifying score on Pennsylvania Department of Education required exam(s). If you are interested in teaching in another state, please contact the Department of Education in that state.

Teacher Education Policy Manual

Professional Education - Credits: 46

SEFE 455 and SPED 315 are taken in the same semester.

- CDEV 248 - Human Development and Education Credits: 3
- SEFE 200 - Introduction to Education, Teaching Methods and Field Credits: 3
- SEFE 230 - Production and Utilization of Instructional Technology Credits: 3
- SEFE 370 - Educational Measurements, Assessment and Evaluation Credits: 3
- SEFE 323 - Teaching World Languages Credits: 3
- SEFE 326 - ELL Strategies and Practice Credits: 3
- SEFE 338 - Standards-Based Instruction & Assessment in the Inclusionary Classroom Credits: 3
- SEFE 342 - Educational Psychology for Diverse Learners Credits: 3
- SEFE 380 - History and Philosophy of Education Credits: 3
- SEFE 426 - Practicum in Secondary Education Credits: 1
- SEFE 455 - Student Teaching - Secondary Education Credits: 3 to 12
- SPED 121 - High Incidence Disabilities Credits: 3
- SPED 315 - Special Education Issues in Diverse Secondary Classrooms Credits: 3

Secondary Content Area - Spanish (30-42 credits)

For student teaching and certification all grades earned in Content Area must be a "C" or above.

Basic Skills Courses - Credits: 0-18

Exemption is possible from these courses according to performance on the placement test.

- SPAN 101 - Spanish Language & Culture I Credits: 3
- SPAN 102 - Spanish Language & Culture II Credits: 3
- SPAN 103 - Spanish Language & Culture III Credits: 3
- SPAN 200 - Spanish Grammar and Composition I Credits: 3
- SPAN 201 - Spanish Conversation I Credits: 3
- SPAN 220 - Reading in Spanish Credits: 3

Required Spanish Courses - Credits: 12

- SPAN 300 - Spanish Grammar and Composition II Credits: 3
- SPAN 350 - Spanish Linguistics and Phonetics Credits: 3
- SPAN 400 - Spanish Grammar and Composition III Credits: 3
- SPAN 401 - Spanish Conversation III Credits: 3

Choose one of the following conversation classes - Credits: 3

- SPAN 301 - Spanish Conversation II Credits: 3
- SPAN 302 - Communication in Spanish for the Elementary Classroom Credits: 3

Choose one of the following civilization courses - Credits: 3

- SPAN 305 - Spain Today Credits: 3

- SPAN 328 - Latin America Today Credits: 3

Choose one of the following literature courses - Credits: 3

- SPAN 431 - Exploring Spanish Culture through Media Credits: 3
- SPAN 432 - Exploring Latin American Cultures through Media Credits: 3

Spanish Electives

For students who exempt any of the required Basic Skills Courses, any Spanish course may be used in this block.

Study Abroad Highly Recommended

Students should plan to spend a summer or semester in a country where Spanish is spoken. Credits earned may be used to fill the above requirements.

Middle Level English/Language Arts

Secondary Education/Foundations of Education

Follow the checklist provided by the Secondary Education/Foundations of Education department to complete Liberal Studies requirements.

All candidates completing this program and student teaching are eligible to receive Pennsylvania certification after achieving a passing or qualifying score on Pennsylvania Department of Education required exam(s). If you are interested in teaching in another state, please contact the Department of Education in that state.

Major Requirements - Credits: 79

Liberal Studies Requirements

See Middle Level English/Language Arts (4-8) curriculum guide for course requirements and recommendations.

Professional Education - Credits: 49

- SEFE 200 - Introduction to Education, Teaching Methods and Field Credits: 3
- SEFE 230 - Production and Utilization of Instructional Technology Credits: 3
- SEFE 251 - Teaching Reading in the Content Areas Grades 4-8 Credits: 3
- SEFE 300 - Middle Level Cognitive Development Credits: 3
- SEFE 326 - ELL Strategies and Practice Credits: 3
- SEFE 337 - Teaching Middle Level Language Arts Credits: 3
- SEFE 338 - Standards-Based Instruction & Assessment in the Inclusionary Classroom Credits: 3
- SEFE 342 - Educational Psychology for Diverse Learners Credits: 3
- SEFE 370 - Educational Measurements, Assessment and Evaluation Credits: 3
- SEFE 380 - History and Philosophy of Education Credits: 3
- SEFE 422 - Practicum in the Middle-Level Grades Credits: 1

- SEFE 456 - Student Teaching - Middle Level Grades Credits: 12
- SPED 121 - High Incidence Disabilities Credits: 3
- SPED 315 - Special Education Issues in Diverse Secondary Classrooms Credits: 3

English/Language Arts Certification Specialization - Credits: 30

Required 24 semester hours from the following courses. All grades must be "C" or above.

An additional 6 credits from Liberal Studies courses. Check with academic adviser for course selections.

- ENGL 305 - Practicum: Teaching Writing Credits: 3 **REQUIRED COURSE**
- ENGL 230 - Introduction to Linguistics and Grammar Credits: 3
- OR
- ENGL 331 - Historical Development of the English Language Credits: 3
- ENGL 402 - World Literature Credits: 3
- ENGL 317 - British Literature I Credits: 3
- OR
- ENGL 318 - British Literature II Credits: 3
- ENGL 319 - American Literature I Credits: 3
- OR
- ENGL 320 - American Literature II Credits: 3
- ENGL 328 - Young Adult Literature Credits: 3 **REQUIRED COURSE**
- ENGL 332 - Modern English Grammar and Syntax Credits: 3
- COMM 263 - Mass Media and Society Credits: 3 **REQUIRED COURSE**

Middle Level Mathematics - Credits: 79

Secondary Education/Foundations of Education

Follow the checklist provided by the Secondary Education/Foundations of Education department to complete Liberal Studies requirements.

All candidates completing this program and student teaching are eligible to receive Pennsylvania certification after achieving a passing or qualifying score on Pennsylvania Department of Education required exam(s). If you are interested in teaching in another state, please contact the Department of Education in that state.

Liberal Studies Requirements

See Middle Level Mathematics curriculum guide for course requirements and recommendations.

Professional Education - Credits: 49

- SEFE 200 - Introduction to Education, Teaching Methods and Field Credits: 3
- SEFE 230 - Production and Utilization of Instructional Technology Credits: 3
- SEFE 251 - Teaching Reading in the Content Areas Grades 4-8 Credits: 3
- SEFE 300 - Middle Level Cognitive Development Credits: 3
- SEFE 311 - Teaching of Mathematics in the Middle School Credits: 3
- SEFE 326 - ELL Strategies and Practice Credits: 3

- SEFE 338 - Standards-Based Instruction & Assessment in the Inclusionary Classroom Credits: 3
- SEFE 342 - Educational Psychology for Diverse Learners Credits: 3
- SEFE 370 - Educational Measurements, Assessment and Evaluation Credits: 3
- SEFE 380 - History and Philosophy of Education Credits: 3
- SEFE 422 - Practicum in the Middle-Level Grades Credits: 1
- SEFE 456 - Student Teaching - Middle Level Grades Credits: 12
- SPED 121 - High Incidence Disabilities Credits: 3
- SPED 315 - Special Education Issues in Diverse Secondary Classrooms Credits: 3

Specialization (Mathematics Certification Area) - Credits: 30

12 credits from Liberal Studies - MATH 118, 152, 210, 310

Choose 18 total semester hours from the following course list of the Math Certification Specialization courses. All grades must be "C" or above.

Required:

- MATH 131 - Discrete Mathematics Credits: 3
- MATH 225 - Calculus I Credits: 4

Electives

- MATH 122 - Finite Mathematics with Matrices Credits: 3
- MATH 125 - Precalculus Credits: 4
- MATH 230 - Calculus II Credits: 4
- MATH 231 - Calculus III Credits: 4
- MATH 235 - Foundations of Mathematical Proof Credits: 3
- MATH 240 - Linear Algebra and Differential Equations Credits: 3

Middle Level Science - Credits: 79

Secondary Education/Foundations of Education

Follow the checklist provided by the Secondary Education/Foundations of Education department to complete Liberal Studies requirements.

All candidates completing this program and student teaching are eligible to receive Pennsylvania certification after achieving a passing or qualifying score on Pennsylvania Department of Education required exam(s). If you are interested in teaching in another state, please contact the Department of Education in that state.

Liberal Studies Requirements

See Middle Level Science curriculum guide for course requirements and recommendations.

Professional Education - Credits: 49

- SEFE 200 - Introduction to Education, Teaching Methods and Field Credits: 3
- SEFE 230 - Production and Utilization of Instructional Technology Credits: 3
- SEFE 251 - Teaching Reading in the Content Areas Grades 4-8 Credits: 3
- SEFE 300 - Middle Level Cognitive Development Credits: 3
- SEFE 326 - ELL Strategies and Practice Credits: 3
- SEFE 338 - Standards-Based Instruction & Assessment in the Inclusionary Classroom Credits: 3
- SEFE 342 - Educational Psychology for Diverse Learners Credits: 3
- SEFE 349 - Teaching of Science in the Middle School Credits: 3
- SEFE 370 - Educational Measurements, Assessment and Evaluation Credits: 3
- SEFE 380 - History and Philosophy of Education Credits: 3
- SEFE 422 - Practicum in the Middle-Level Grades Credits: 1
- SEFE 456 - Student Teaching - Middle Level Grades Credits: 12
- SPED 121 - High Incidence Disabilities Credits: 3
- SPED 315 - Special Education Issues in Diverse Secondary Classrooms Credits: 3

Specialization (Science Certification Area) - Credits: 30

9 - 11 credits from Liberal Studies - BIOL 101 or 104, CHEM 107/111, PHYS 317

Required 19-21 semester hours from the Science Certification Specialization courses. All grades must "C" or above.

- BIOL 105 - Environmental Biology Credits: 3
- CHEM 108 - General Chemistry II Credits: 3
- AND
- CHEM 112 - General Chemistry II Lab Credits: 1
- EGEO 101 - Physical Geology Credits: 3
- AND
- EGEO 111 - Physical Geology Lab Credits: 1
- EGEO 121 - Meteorology/Lab Credits: 4
- EGEO 201 - Earth Materials and Processes/Lab Credits: 4
- PHYS 201 - Elements of Physics I/ Lab Credits: 4
- PHYS 202 - Elements of Physics II/ Lab Credits: 4

Middle Level Social Studies - Credits: 82

Secondary Education/Foundations of Education

Follow the checklist provided by the Secondary Education/Foundations of Education department to complete Liberal Studies requirements.

All candidates completing this program and student teaching are eligible to receive Pennsylvania certification after achieving a passing or qualifying score on Pennsylvania Department of Education required exam(s). If you are interested in teaching in another state, please contact the Department of Education in that state.

Liberal Studies Requirements

See Middle Level Social Studies curriculum guide for course requirements and recommendations.

Professional Education - Credits: 49

- SEFE 200 - Introduction to Education, Teaching Methods and Field Credits: 3
- SEFE 230 - Production and Utilization of Instructional Technology Credits: 3
- SEFE 251 - Teaching Reading in the Content Areas Grades 4-8 Credits: 3
- SEFE 300 - Middle Level Cognitive Development Credits: 3
- SEFE 326 - ELL Strategies and Practice Credits: 3
- SEFE 335 - Teaching Middle Level Social Studies Credits: 3
- SEFE 338 - Standards-Based Instruction & Assessment in the Inclusionary Classroom Credits: 3
- SEFE 342 - Educational Psychology for Diverse Learners Credits: 3
- SEFE 370 - Educational Measurements, Assessment and Evaluation Credits: 3
- SEFE 380 - History and Philosophy of Education Credits: 3
- SEFE 422 - Practicum in the Middle-Level Grades Credits: 1
- SEFE 456 - Student Teaching - Middle Level Grades Credits: 12
- SPED 121 - High Incidence Disabilities Credits: 3
- SPED 315 - Special Education Issues in Diverse Secondary Classrooms Credits: 3

Specialization (Social Studies Certification Area) - Credits: 33

Additional courses to reach 33 credits toward Social Studies Certification will be earned in the Liberal Studies program. Check with your academic adviser for guidance.

21 credits from Liberal Studies - PROF 202, GES 100 or 105 or 107 or 109, POLS 101, PSYC 105, POLS 322 or 333 or 340 or 348 or 349, PROF 106, PROF 105

12 credits from Social Studies Certification Specialization courses

Choose one World History course - Credits: 3

- HIST 151 - Ancient and Medieval World Credits: 3
- HIST 152 - Rise of the Modern World Credits: 3
- HIST 153 - Contemporary World History Credits: 3

Choose one American History course - Credits: 3

- HIST 201 - Colonial America to 1815 Credits: 3
- HIST 202 - United States, 1815-1920 Credits: 3
- HIST 203 - U.S. History Since 1920 Credits: 3

PA History Required - Credits: 3

- HIST 435 - Pennsylvania Credits: 3

Choose one Non-Western History course - Credits: 3

- HIST 362 - Africa North of the Zambezi Credits: 3

- HIST 363 - Southern Africa Credits: 3
- HIST 370 - History and the Bible Credits: 3
- HIST 371 - History of Jews Credits: 3
- HIST 380 - Egyptology Credits: 3
- HIST 381 - East Asian Military Traditions Credits: 3
- HIST 382 - Modern Asian Pacific Rim Credits: 3
- HIST 386 - Modern China Credits: 3
- HIST 462 - The Contemporary Middle East Credits: 3

Minor in Middle Level Education

Minor Requirements - Credits: 18

Minor requirements:

- GPA requirement 2.8 or higher Minor GPA
- Students must complete at least 6 credit hours in their minor from SRU
- A minimum of 6 credit hours must be upper division (courses numbered 300 and above)
- A minor shall be no fewer than 18 credits

Young Adolescent Cognition - Credits: 6

- SEFE 245 - Middle Level Learning Theory Credits: 3
- SEFE 300 - Middle Level Cognitive Development Credits: 3

Middle School Organization and Philosophy - Credits: 3

- SEFE 380 - History and Philosophy of Education Credits: 3

Middle Level Pedagogy - Credits: 9

- SEFE 251 - Teaching Reading in the Content Areas Grades 4-8 Credits: 3
- SEFE 325 - Teaching in the Middle Level Grades Credits: 3
- SEFE 338 - Standards-Based Instruction & Assessment in the Inclusionary Classroom Credits: 3

Special Education

114 McKay Education Building
724-738-2085

Special Education

The Special Education Department is dedicated to the professional development of pre-service and in-service teachers, administrators, and related professionals in the field of Special Education. Our specialized programs, both on-campus and web-based, are centered on research-based classroom experiences and extensive field work in self-contained and inclusive settings, schools and agency settings. We believe that collaboration, service, professionalism, and leadership,

combined with a strong knowledge base, are key components in the development of model professionals who are dedicated to individuals with exceptionalities throughout their lifespan.

Chair

Matthew Erickson

Secretary

TBA

Faculty

Richael Barger-Anderson, Vaughn Bicehouse, Matthew Erickson, Robert Isherwood, Jeremy Lynch, Michelle McCollin, Joseph Merhaut, Tony Mild, Mike Monfore, Ashlea Rineer-Hershey and Anne Rose.

The guidelines on admission, professional conduct, and student teaching for this department include, and may go beyond, those required for the College of Education as a whole. Details may be found in the Teacher Education Policy Manual.

The special education department's programs are for students who choose to pursue careers working with exceptional children who are identified or those who differ significantly from the "average" child to the extent that special instructional methods, materials, and/or related services are required for their education and treatment.

The department offers an undergraduate education program that includes courses in liberal studies, professional education, elementary education, and special education. Students are required to complete a minimum of 20 hours involved in direct contact with individuals in a diverse educational setting prior to their supervised teaching assignments at the junior/senior levels. Throughout the undergraduate program students are required to participate in experience-based learning in order to maximize their development as competent and effective future educators.

Community Programs for Americans with Disabilities (BS) - Adapted Physical Activity Track

Special Education Department

(no teacher certification)

Students may elect to major in special education without working for a teaching certificate. The program, Community Programs for Americans with Disabilities (CPAD) prepares professionals for a variety of community-based roles providing services for children and adults with disabilities. These roles include: case managers for intermediate care facilities, house managers for community residences, supervisors for sheltered workshops, and directors for community living arrangement programs. Students conclude the CPAD program with a 12-credit internship within a local community-based facility.

Foundations - 12 credits

- ELEC 100 - Early Childhood Education Theory & Practice Credits: 3

- SPED 121 - High Incidence Disabilities Credits: 3
- SPED 122 - Low Incidence Disabilities Credits: 3
- SPED 230 - Developmental Disorders Credits: 3

CPAD Block - 12 credits

- SPED 341 - Transition Across the Lifespan Credits: 3
- SPED 342 - Building Community Partnerships Credits: 3
- SPED 343 - Americans with Disabilities Credits: 3
- PE 460 - Program Design in Adapted Physical Activity Credits: 3

Adapted Physical Activity Block - 21 credits

- PE 227 - Introduction to Adapted Physical Activity Credits: 3
- PE 262 - Adapted Aquatics Credits: 3
- PE 266 - Disability Sport in the 21st Century: A Global Perspective Credits: 3
- PE 353 - Adapted Physical Activity and Health through the Lifespan Credits: 3
- PE 364 - Biomechanics of Individuals with Disabilities Credits: 3
- PE 473 - Professionalism, Advocacy, and Leadership in Physical Activity Credits: 3

Practicum - 3 credits

- SPED 410 - Transition Practicum Credits: 3

Internship - 12 credits

- SPED 450 - Transition Internship Credits: 12

Community Programs for Americans with Disabilities (BS) - Non-Profit Management Track

Special Education - Credits: 57

(no teacher certification)

Students may elect to major in special education without working for a teaching certificate. The program, Community Programs for Americans with Disabilities (CPAD) prepares professionals for a variety of community-based roles providing services for children and adults with disabilities. These roles include: case managers for intermediate care facilities, house managers for community residences, supervisors for sheltered workshops, and directors for community living arrangement programs. Students conclude the CPAD program with a 12-credit internship within a local community-based facility.

Foundations - Credits: 15

- ELEC 100 - Early Childhood Education Theory & Practice Credits: 3
- ELEC 200 - Child Development Typical Credits: 3
- SPED 121 - High Incidence Disabilities Credits: 3
- SPED 122 - Low Incidence Disabilities Credits: 3
- SPED 230 - Developmental Disorders Credits: 3

CPAD Block - Credits: 9

- SPED 341 - Transition Across the Lifespan Credits: 3
- SPED 342 - Building Community Partnerships Credits: 3
- SPED 343 - Americans with Disabilities Credits: 3

Non-Profit Leadership Block - Credits: 18

- INDP 305 - Financial Best Practice for Decision Makers Credits: 3
- INDP 304 - Urban Sociology Credits: 3
- INDP 320 - Community Change and Development Credits: 3
- INDP 321 - Minority Groups Credits: 3
- INDP 325 - Social and Ethical Issues in Philanthropy and Fundraising Credits: 3
- INDP 342 - Sociology of Aging Credits: 3

Practicum - Credits: 3

- SPED 410 - Transition Practicum Credits: 3

Internship - Credits: 12

- SPED 450 - Transition Internship Credits: 12

Minor in Special Education

Special Education Department

Requirements for the Minor - Credits: 18

Students who are studying in psychology, social work, music therapy, recreation, and teacher education may find the minor in exceptionalities to be a desirable enhancement to their major career fields. The minor is a prescribed program of 18 credits of special education courses. The Minor in Exceptionalities program does not lead to certification in special education.

Foundation Courses - Credits: 6

- SPED 121 - High Incidence Disabilities Credits: 3
- SPED 122 - Low Incidence Disabilities Credits: 3

Elective Courses - Credits: 12

- SPED 220 - The Nature and Needs of Autism Spectrum Disorders Credits: 3
- SPED 230 - Developmental Disorders Credits: 3
- SPED 245 - Technology in Special Education Credits: 3
- SPED 315 - Special Education Issues in Diverse Secondary Classrooms Credits: 3
- SPED 325 - Interventions in the Inclusive Classroom Credits: 3
- SPED 326 - Special Education Law and Procedures Credits: 3
- SPED 341 - Transition Across the Lifespan Credits: 3
- SPED 343 - Americans with Disabilities Credits: 3
- SPED 430 - Positive Behavior Strategies Credits: 3
- SPED 432 - Intervention in the Content Areas Credits: 3

College of Health, Environment & Sciences

Office: 325 Physical Therapy Building

Phone: 724-738-4862

Email: ches@sru.edu

Interim Dean

Jerry Chmielewski

Assistant to the Dean

Patricia Pierce

Administrative Assistant

LuAnn Znosko

Secretary

Cheryl Dolan

Departments

Biology

Chemistry

Computer Science

Exercise and Rehabilitative Sciences

Geography, Geology, and the Environment

Mathematics and Statistics

Nursing

Parks and Recreation

Physics and Pre-Engineering

Psychology

Public Health and Social Work

School of Physical Therapy

Other Programs

Pre-Physician Assistant Option

Pre-Engineering Option

Pre-Physical Therapy Option

The primary mission of the College of Health, Environment, and Science is to provide quality undergraduate and graduate programs that prepare students for a variety of human service, science, and environmental professions. The major fields of study leading to a bachelor of science, bachelor of science in education, bachelor of arts, or bachelor of science in nursing are described under the appropriate departments, which include: public health and social work, exercise and rehabilitative sciences, nursing, parks and recreation, biology, chemistry, computer science and physics, geography, geology, and the environment, mathematics and statistics, and psychology. The natural sciences and mathematics programs offer a wide range of opportunities that enhance students' awareness of the natural environment and prepare students to engage in logical thought processes. Curricula provide a broad liberal arts foundation and a specialized body of knowledge in a selected area of study. Many programs incorporate a wide range of applied learning opportunities, such as laboratories, field experiences, and internships. Following completion of the undergraduate program, many students pursue graduate study in the health professions including medicine, pharmacy and chiropractic, or advanced graduate work in their area of specialization. Students pursuing teacher education programs are expected to meet all admission and retention criteria as described in the teacher education section.

Biology

Biology

Office: 300 Vincent Science Center

Phone: 724-738-2023

Chair

Nicole Dafoe

Secretary

Melissa Barber

Faculty

Simon Beeching, Jennifer Belavic, Megan Borger, Martin Buckley, Nicole Dafoe, Dean DeNicola, Miranda Falso, Paul Falso, Wayne Forbes, Heather Fritz, Diane Frndak, Jamie Hammond, Jacob Hovis, Stacy Hrizo, Audra Kessler, Dave Kraysky, Jack Layne, Jeffrey Loveland, Christopher Maltman, Barbara Ragnelli, Susan Rehorek, Kenneth Reichl, Mark Shotwell, Justin Siebert, William Sigmund, Elise Somers, Steven Strain, Amanda Tishko, Lynn Williams

The fundamental mission of the department of Biology is to provide students with a comprehensive, contemporary understanding of the biological sciences by offering experiences that are stimulating and challenging. Our courses include both lecture and hands-on, experiential laboratory components. The goal of our collective efforts is to foster an appreciation for the complexities of living systems and to promote the development of competent biologists and scientifically literate citizens.

Our curricula introduce the student to basic biological principles at the molecular, cellular, organismal, and population levels. Regardless of your interests or long-term goals, the degree programs offered by the Department of Biology will prepare you well. The programs provide either breadth of training in the biological sciences, or allow for concentration in discipline specific interest areas such as botany, zoology, microbiology, physiology, the paramedical fields of Medical Technology, Cytotechnology, or Histotechnology. Several year plus degree options are also available, thus facilitating smooth transition to degrees in the Physician Assistant program and physical therapy at Slippery Rock University, osteopathic medicine at Lake Erie College of Osteopathic Medicine (LECOM), pharmacy at the LECOM School of Pharmacy, dentistry at LECOM or West Virginia University, and chiropractic at Logan University of Chiropractic or Palmer Chiropractic(see Pre-Professional Programs). Specialized opportunities exist for participation in undergraduate research and for off campus study (e.g. international experiences, internships, marine science).

Graduates may select careers in academia, business, health profession, teaching, industry, or government. A majority of our graduates matriculate into health related degree programs such as allopathic medicine, osteopathic medicine, physician assistant, nursing, physical therapy, occupational therapy, optometry, dentistry, public health, genetic counseling, chiropractic, and dietetics or discipline specific masters or doctorate programs, including a masters in secondary education. Whatever their individual specializations, the biology faculty share a commitment to students and have a genuine concern for their professional development.

Students majoring or minoring in biology must maintain at least a 2.000 average in biology. Before progressing to a 200-level course, students must earn a 2.000 in the 100-level basic requirement biology courses. Students may register in 200-level biology courses in any order but must maintain a biology average of 2.000 or better, before progressing to another course. A student must repeat any 200-level course that brings the biology average below a 2.000. Students must complete the 200 core sequence before progressing to 300- and 400-level courses in the major. Students should complete all 200-level biology requirements by the end of their sophomore year.

Biology (BA)

See the Department of Biology for more information.

Students seeking state certification in secondary education must also complete requirements for a Master of Education degree, a one-year program at SRU. All of our programs are designed to steadily develop the quantitative, deductive and inductive reasoning skills that biologists must have.

Major Requirements - Credits: 39-40

Biology Core Requirements - Credits: 16

Before progressing to a 200-level course, students must achieve a minimum 2.000 average in the 100-level basic requirements course. Students may register in 200-level biology courses in any order but must maintain a biology average of 2.0 or better, before progressing to another course. A student must repeat any 200-level biology course that brings the biology average below a 2.000. Students should try to complete all 200-level biology requirements by the end of their sophomore year.

- BIOL 104 - Principles of Biology/Lab Credits: 4
- BIOL 201 - General Botany/Lab Credits: 4
- BIOL 212 - General Zoology/Lab Credits: 4
- BIOL 250 - Genetics/Lab Credits: 4

Required Upper Level Biology - Credits: 1

- BIOL 492 - Biology Seminar Credits: 1

Upper Level Biology Electives - Credits: 9

Select 9 credits from the following:

- BIOL 330 - Microbiology/Lab Credits: 3
- BIOL 340 - Vertebrate Anatomy/Lab Credits: 3
OR
- BIOL 465 - Plant Anatomy / Lab Credits: 3
- BIOL 370 - Molecular Biology/Lab Credits: 3
- BIOL 401 - Ecology/Lab Credits: 3
- BIOL 410 - Animal Physiology/Lab Credits: 3
OR
- BIOL 451 - Plant Physiology / Lab Credits: 3

Biology Electives - Credits: 5-6

Select two courses from the above or any approved 300 or 400-level biology major courses. Additional electives may be selected from the Marine Science offerings.

Related Sciences - Credits: 8

- CHEM 108 - General Chemistry II Credits: 3
- CHEM 112 - General Chemistry II Lab Credits: 1
- CHEM 201 - Organic Chemistry I Credits: 3
- CHEM 211 - Organic Chemistry Laboratory I Credits: 1

Required Major Field Test before Graduation

Field Test

Natural Science and Math College Wide Requirements - Credits: 12

- CHEM 107 - General Chemistry I Credits: 3
- CHEM 111 - General Chemistry I Lab Credits: 1
- MATH 125 - Precalculus Credits: 4
OR
- MATH 225 - Calculus I Credits: 4
- PHYS 201 - Elements of Physics I/ Lab Credits: 4
OR
- PHYS 211 - General Physics I/ Lab Credits: 4

Biology (BA) (BS) - Pre Master of Education (7-12)

Students seeking state certification in secondary education must also complete requirements for a Master of Education degree, a one-year program at SRU. All of our programs are designed to steadily develop the quantitative, deductive and inductive reasoning skills that biologists must have.

All candidates completing this program and student teaching are eligible to receive Pennsylvania certification after achieving a passing or qualifying score on Pennsylvania Department of Education required exam(s). If you are interested in teaching in another state, please contact the Department of Education in that state.

Requirements for the Certification

Teacher certification is earned through the master of education degree at Slippery Rock University. Students seeking secondary school teaching certification in biology must earn a bachelor of arts or a bachelor of science degree in biology and contact the Department of Secondary Education/Foundations of Education concerning its graduate program in education. Information about this program, including prerequisites for admission, may be obtained from the Secondary Education/Foundations of Education office in 114 McKay Education Building.

Biology (BS) - Biomedical Sciences

The Biology (BS) - Biomedical Sciences Track is designed to prepare students for a career in the health sciences (e.g. medical school, physician assistant, physical therapy, pharmacy, biomedical research, etc.). The course work is tailored to meet the requirements often needed for admission into graduate education.

Biology (BS) - Biomedical Sciences Track - Credits: 59

Basic Biology Requirements - Credits: 16

- BIOL 104 - Principles of Biology/Lab Credits: 4
- BIOL 201 - General Botany/Lab Credits: 4
- BIOL 212 - General Zoology/Lab Credits: 4
- BIOL 250 - Genetics/Lab Credits: 4

Required Upper-Level Biology - Credit: 1

- BIOL 492 - Biology Seminar Credits: 1

Upper-Level Biology Electives - Credits: 24

Choose 24 credits from the following courses:

- BIOL 314 - Medical Parasitology/Lab Credits: 1
- BIOL 315 - Medical Mycology/Lab Credits: 1
- BIOL 316 - Medical Immunology/Lab Credits: 1
- BIOL 319 - Medical Virology with a Lab Credits: 1
- BIOL 325 - Biometry / Lab Credits: 3
- BIOL 330 - Microbiology/Lab Credits: 3
- BIOL 335 - Cell Biology/Lab Credits: 3
- BIOL 340 - Vertebrate Anatomy/Lab Credits: 3
- BIOL 343 - Embryology / Lab Credits: 3
- BIOL 370 - Molecular Biology/Lab Credits: 3
- BIOL 410 - Animal Physiology/Lab Credits: 3
- BIOL 430 - Pathogenic Microbiology / Lab Credits: 3

- BIOL 451 - Plant Physiology / Lab Credits: 3
- BIOL 465 - Plant Anatomy / Lab Credits: 3
- BIOL 470 - Histology / Lab Credits: 3

Related Sciences - Chemistry - Credits: 12

- CHEM 108 - General Chemistry II Credits: 3
- CHEM 112 - General Chemistry II Lab Credits: 1
- CHEM 201 - Organic Chemistry I Credits: 3
- CHEM 202 - Organic Chemistry II Credits: 3
- CHEM 211 - Organic Chemistry Laboratory I Credits: 1
- CHEM 212 - Organic Chemistry Laboratory II Credits: 1

Related Sciences - Chemistry Advanced Elective - Credits: 3

- CHEM 335 - Biochemistry I Credits: 3
- CHEM 350 - Analytical Chemistry Credits: 3

Independent Study Option - Credits: 3

- BIOL 490 - Independent Study Credits: 1 to 3
OR
BIOL 3**/4**
OR
MARS 3**/4**

Major Field Test

Major Field Test is required of all Biology students before graduation

Natural Science and Math College Wide Requirements - Credits: 12

- CHEM 107 - General Chemistry I Credits: 3
- CHEM 111 - General Chemistry I Lab Credits: 1
- MATH 225 - Calculus I Credits: 4
- PHYS 211 - General Physics I/ Lab Credits: 4

Additional Upper Level Biology Electives - Credits: 6

Choices can come from courses not chosen above or any approved 300/400 level course. Additional electives may be selected from Marine Science.

Recommended Free Electives

Elective courses may be selected with your advisor based on your chosen medical specialization.

- BIOL 216 - Anatomy and Physiology I /Lab Credits: 3
- BIOL 217 - Anatomy and Physiology II/Lab Credits: 3
- CHEM 425 - Instrumental Analysis Credits: 3
- HCAM 250 - Medical Terminology for Healthcare Administrators Credits: 3
- OR
- ERS 250 - Medical Terminology Credits: 3
- HLTH 314 - Nutrition and Health Credits: 3
- PA 500 - Applied Medical Terminology Credits: 1 (Prep for PA Studies or a Career in Medicine)
- PHIL 325 - Medical/Health Care Ethics Credits: 3
- PHYS 213 - General Physics III/ Lab Credits: 4

Biology (BS) - Cytotechnology

Department of Biology

Cytotechnologists are highly skilled laboratory professionals who enjoy excellent opportunities in the present job market, which include hospital laboratories, private clinics and cancer research laboratories. In our 3+1 program the student spends three years in coursework at Slippery Rock University and one calendar year in clinical and didactic study at an American Medical Association accredited hospital school of cytotechnology.

During the three years on campus the student earns a minimum of 91 credits. Upon the successful completion of the clinical 12 months, the university accepts 29 semester credits in transfer and awards the bachelor of science degree. Because of the nature of the cytotechnology curriculum, transfer students are strongly urged to earn 64 credits at Slippery Rock University.

Slippery Rock University is formally affiliated with the Fletcher Allen Health Care, Burlington, VT, and the School of Cytotechnology, Albany Medical College, Albany, NY.

Note: A 2.000 average must be maintained in BIOL 104, 210, 213, 214, 215, 216, 217, and 250 before cytotechnology students can move on to the next required course. See also Department of Biology guidelines for further restrictions.

This program prepares you to sit for a national exam that may lead to professional licensure and/or certification. Professional licensure and/or certification vary by state and you are urged to check with your state licensing board.

Requirements for the Major - Credits: 60

Biology Core Requirements - Credits: 17

Before progressing to a 200-level course, students must achieve a minimum 2.000 average in the 100-level basic requirements course. Students may register in 200-level biology courses in any order but must maintain a biology average of 2.0 or better, before progressing to another course. A student must repeat any 200-level biology course that brings the biology average below a 2.000. Students should try to complete all 200-level biology requirements by the end of their sophomore year.

- BIOL 104 - Principles of Biology/Lab Credits: 4
- BIOL 210 - Medical Microbiology/Lab Credits: 3
- BIOL 216 - Anatomy and Physiology I /Lab Credits: 3

- BIOL 217 - Anatomy and Physiology II/Lab Credits: 3
- BIOL 250 - Genetics/Lab Credits: 4

Required Upper Level Biology - Credits: 7

- BIOL 316 - Medical Immunology/Lab Credits: 1
- BIOL 335 - Cell Biology/Lab Credits: 3
- BIOL 470 - Histology / Lab Credits: 3

Upper Level Biology Electives - Credits: 2

- BIOL 314 - Medical Parasitology/Lab Credits: 1
- BIOL 315 - Medical Mycology/Lab Credits: 1
- BIOL 319 - Medical Virology with a Lab Credits: 1

Related Sciences - Credits: 16

- CHEM 108 - General Chemistry II Credits: 3
- CHEM 112 - General Chemistry II Lab Credits: 1
- CHEM 201 - Organic Chemistry I Credits: 3
- CHEM 202 - Organic Chemistry II Credits: 3
- CHEM 211 - Organic Chemistry Laboratory I Credits: 1
- CHEM 212 - Organic Chemistry Laboratory II Credits: 1
- CHEM 335 - Biochemistry I Credits: 3
- CHEM 336 - Biochemistry Laboratory I Credits: 1

Clinical Experience - Credits: 18

Minimum of 91 hours on campus plus 1 year (12 months) at an affiliated School of Cytotechnology or one acceptable to Slippery Rock University.

- NSM 390 - Clinical Experience Credits: 32
Credits for Clinical Experience = 18

Natural Science & Math College Wide Requirements - Credits: 12

- CHEM 107 - General Chemistry I Credits: 3
- CHEM 111 - General Chemistry I Lab Credits: 1
- MATH 225 - Calculus I Credits: 4
- PHYS 211 - General Physics I/ Lab Credits: 4

Electives - Credits: 14

- NSM 390 - Clinical Experience Credits: 32 Credits: 14

NOTE:

This track requires STAT 152 in the enrichment block of the liberal studies requirements.

Biology (BS) - Histotechnology

Department of Biology

Histotechnologists are highly skilled laboratory professionals who enjoy excellent opportunities in the present job market, which include hospital laboratories, private clinics and cancer research laboratories. In our 3+1 program the student spends three years in coursework at Slippery Rock University and one calendar year in clinical and didactic study at an American Medical Association accredited hospital school of histotechnology.

During the three years on campus the student earns a minimum of 91 credits. Upon the successful completion of the clinical 12 months, the university accepts 29 semester credits in transfer and awards the bachelor of science degree. Because of the nature of the histotechnology curriculum, transfer students are strongly urged to earn 64 credits at Slippery Rock University.

Note: A 2.000 average must be maintained in BIOL 104, 210, 213, 214, 215, 216, 217, and 250 before histotechnology students can move on to the next required course. See also Department of Biology guidelines for further restrictions.

This program prepares you to sit for a national exam that may lead to professional licensure and/or certification. Professional licensure and/or certification vary by state and you are urged to check with your state licensing board.

Major Requirements - Credits: 60

Before progressing to a 200-level course, students must achieve a minimum 2.000 average in the 100-level basic requirements course. Students may register in 200-level biology courses in any order but must maintain a biology average of 2.0 or better, before progressing to another course. A student must repeat any 200-level biology course that brings the biology average below a 2.000. Students should try to complete all 200-level biology requirements by the end of their sophomore year.

Biology Core Requirements - Credits: 17

- BIOL 104 - Principles of Biology/Lab Credits: 4
- BIOL 210 - Medical Microbiology/Lab Credits: 3
- BIOL 216 - Anatomy and Physiology I /Lab Credits: 3
- BIOL 217 - Anatomy and Physiology II/Lab Credits: 3
- BIOL 250 - Genetics/Lab Credits: 4

Required Upper Level Biology - Credits: 7

- BIOL 316 - Medical Immunology/Lab Credits: 1
- BIOL 335 - Cell Biology/Lab Credits: 3
- BIOL 470 - Histology / Lab Credits: 3

Upper Level Biology Electives - Credits: 2

Students must take 2 of the following courses:

- BIOL 314 - Medical Parasitology/Lab Credits: 1
- BIOL 315 - Medical Mycology/Lab Credits: 1
- BIOL 319 - Medical Virology with a Lab Credits: 1

Related Sciences - Credits: 16

- CHEM 108 - General Chemistry II Credits: 3
- CHEM 112 - General Chemistry II Lab Credits: 1
- CHEM 201 - Organic Chemistry I Credits: 3
- CHEM 202 - Organic Chemistry II Credits: 3
- CHEM 211 - Organic Chemistry Laboratory I Credits: 1
- CHEM 335 - Biochemistry I Credits: 3
- CHEM 212 - Organic Chemistry Laboratory II Credits: 1
- CHEM 336 - Biochemistry Laboratory I Credits: 1

Clinical Experience - Credits: 18

Minimum of 91 hours on campus plus 1 year (12 months) at an affiliated School of Histotechnology or one acceptable to Slippery Rock University.

- NSM 390 - Clinical Experience Credits: 32
Credits for Clinical Experience = 18

Natural Science & Math College Wide Requirements - Credits: 12

- CHEM 107 - General Chemistry I Credits: 3
- CHEM 111 - General Chemistry I Lab Credits: 1
- MATH 225 - Calculus I Credits: 4
- PHYS 211 - General Physics I/ Lab Credits: 4

Electives - Credits: 14

- NSM 390 - Clinical Experience Credits: 32

NOTE:

This track requires STAT 152 in the enrichment block of the liberal studies requirements.

Biology (BS) - LECOM Pre Osteopathic Medicine 3+4

Biology Department

Lake Erie College of Osteopathic Medicine (LECOM)

Under this joint agreement between Lake Erie College of Osteopathic Medicine (LECOM) and Slippery Rock University (SRU), select undergraduate students who have successfully completed specific course work at SRU may continue their education in medicine at LECOM. This program is comprised of two phases: Phase I consists of the first three years of undergraduate education at SRU; Phase II consists of the remaining four years of medical school education at LECOM and its associated clinical sites. Slippery Rock University will confer the Bachelor of Science degree in Biology to Slippery Rock students who have successfully completed the Slippery Rock courses in Phase I at SRU and the first four semesters (pre-clinical) of LECOM's Academic curriculum.

To be eligible for the "4+4" Program, SRU students must satisfy the requirements listed below for the Bachelor of Science degree in Biology at SRU for the "4+4" Program, and indicate interest to enter into the "4+4" Program before the start of their junior year at SRU. To gain final acceptance to Phase II of the "4+4" Program, students must fill out the Affiliated Medical School Application which is available through their LECOM student portal. The application must be received by October 15th of their final year at Slippery Rock University. Letters of recommendation and supporting documentation, including certified transcripts from all undergraduate and graduate institutions attended, must be submitted for review by LECOM.

Admissions to LECOM is subject to the applicant's meeting the following criteria:

1. SAT minimum 1170 or ACT minimum 26. (1240 on the SAT for the "4+4"; 1340 on the new SAT for the "3+4") A minimum of 28 or higher on the ACT is required for the "3+4" track.
2. Unweighted High School Grade Point Average 3.5 or better.
3. Slippery Rock University GPA; Overall GPA of 3.4 and Science GPA of 3.2 or better for the 4+4 program at the completion of the undergraduate studies. The Overall GPA must be 3.5 or higher and science GPA 3.2 or higher for the "3+4" track.
4. Students can be evaluated based on an Academic Index Score (AIS) in place of the MCAT. The AIS is calculated by using the student's ACT or SAT and the student's overall college GPA. The minimum AIS required to waive the MCAT for the 4+4 program is 115 (equivalent to a 3.4 overall college GPA along with a 1170 old SAT or 1240 new SAT or 26 on the ACT). The minimum AIS for the 3+4 program is 123 (This is equivalent to a 3.5 overall GPA and a 1280 old SAT/1340 new SAT OR a 28 or higher on the ACT). A student who does not reach the AIS may take the MCAT exam. The student must score a 500 or better in order to keep the reserved seat.
5. Shadowing an osteopathic physician is highly recommended but not required.
6. Consideration is also given to personal traits and demonstrated desire to become an osteopathic physician.
7. Appropriate letters of recommendation.

Students successful in Phase I will be interviewed by LECOM in the third year prior to admission to Phase II of the "4+4" program. Final acceptance of candidates to Phase II of the "3+4" Program will be determined by LECOM.

Students will be awarded the Bachelor of Science degree in Biology from SRU upon receipt of an official transcript from LECOM indicating successful completion (grade of "C" or better in each course) of the first year of LECOM's curriculum. Students will be awarded the degree of Doctor of Osteopathic Medicine by LECOM after successfully completing the complete four-year medical curriculum, successfully passing COMLEX I and COMLEX II of the National Board of Osteopathic Medicine Examiners, and otherwise satisfying all other requirements as identified by LECOM for graduation.

Careers in these areas may require professional licensure and certification. Professional licensure and/or certification vary by state and you are urged to check with your state licensing board.

Required courses at SRU:

Biology Courses - Credits: 25

- BIOL 104 - Principles of Biology/Lab Credits: 4
- BIOL 201 - General Botany/Lab Credits: 4
- BIOL 212 - General Zoology/Lab Credits: 4
- BIOL 250 - Genetics/Lab Credits: 4
- BIOL 330 - Microbiology/Lab Credits: 3
- BIOL 340 - Vertebrate Anatomy/Lab Credits: 3
- BIOL 410 - Animal Physiology/Lab Credits: 3

Chemistry Courses - Credits: 19

- CHEM 107 - General Chemistry I Credits: 3
 - CHEM 108 - General Chemistry II Credits: 3
 - CHEM 111 - General Chemistry I Lab Credits: 1
 - CHEM 112 - General Chemistry II Lab Credits: 1
 - CHEM 201 - Organic Chemistry I Credits: 3
 - CHEM 202 - Organic Chemistry II Credits: 3
 - CHEM 211 - Organic Chemistry Laboratory I Credits: 1
 - CHEM 212 - Organic Chemistry Laboratory II Credits: 1
 - CHEM 335 - Biochemistry I Credits: 3
- (or courses approved by the Biology Department Chairperson)

Mathematics Course - Credits: 4

- MATH 225 - Calculus I Credits: 4

Physics Courses - Credits: 7

- PHYS 211 - General Physics I/ Lab Credits: 4
- PHYS 213 - General Physics III/ Lab Credits: 4

Biology (BS) - LECOM Pre Pharmacy Program 2+3

Department of Biology

The Lake Erie College of Osteopathic Medicine (LECOM) School of Pharmacy and Slippery Rock University (SRU) are committed to the training of future pharmacy practitioners. Slippery Rock University and LECOM School of Pharmacy offer an accelerated, five-year Doctor of Pharmacy program. Under this joint agreement students will successfully complete the two-year undergraduate program in pre-pharmacy at SRU and then matriculate into LECOM School of Pharmacy to complete the professional curriculum of the Doctor of Pharmacy degree (Pharm.D) in three years. The accelerated professional pharmacy curriculum at LECOM School of Pharmacy is offered in a 12-month program per academic year. Students participating in this program will not be awarded a Slippery Rock University degree.

The "2+3" Program is comprised of two phases: Phase 1 consists of the first two years of undergraduate education at Slippery Rock University of PA; Phase 2 consists of the remaining three years of pharmacy school education at

LECOM's Erie campus and its associated clinical training sites. Students enrolled in LECOM's 2+3 Program will attend class using a typical academic year i.e. mid-August to early June.

- Each year a list of every student enrolled in Phase I of the program should be submitted to the LECOM School of Pharmacy Admissions Office no later than October 15.
- Students applying for Phase II of the Program must also complete an on-line PharmCAS Application by October 15th of the year of matriculation.
- LECOM School of Pharmacy will accept advanced placement credit for prerequisite courses. However a class of equal rigor should be taken at the affiliated college.
- LECOM School of Pharmacy will not accept credit given for CLEP courses.
- Students who have taken Phase I courses in high school must supplement each course with an additional, higher level course in the same discipline.
- LECOM School of Pharmacy will only accept applications from U.S. citizens and permanent residents.
- The student must be enrolled full-time at the undergraduate institution and complete the program in the time-frame specified in the agreement.
- Students must fulfill all Phase I entrance requirements as specified in the agreement.
- For the students in the 2+3 agreement, all Phase I courses must be taken during a student's four consecutive semesters at the affiliate institution.
- We do permit the student to take summer courses provided that it does not lessen the workload from the Fall or Spring terms.
- Students are permitted to repeat courses although it is extremely difficult to have the time to repeat a course in the 2+3 pathway.
- Students must demonstrate that they can handle a full course load. Therefore, the student should not withdraw from any Phase I course which would result in the reduction of their course load.
- If applying through the agreement, the LECOM School of Pharmacy is the student's first choice. If the student is accepted into the LECOM program, the student should not accept an offer from another institution.
- Any Phase I course cannot be taken pass/fail.
- All questions from students accepted into the agreement should be directed to the institutions pre-pharmacy adviser, Dr. Paul Falso.

For admission to Phase I of the Program, students must fulfill the following requirements:

1. SAT scores (or ACT scores) > 1170 (total of 26); 1240 or higher on the new SAT
2. High School Grade Point Average - 3.5 or better out of 4.0
3. No letters of recommendation are required when applying to the Early Acceptance Program
4. Candidate potential - Evidence of scholarly activities and desire to become a pharmacist

For admission to Phase II of the Program, students must fulfill the following requirements:

1. Complete the pre-pharmacy curriculum in Phase I of the "2+3" Accelerated Pharmacy Program, as described below.
2. Earn a minimum GPA of 3.4 in Phase I of the program with no individual grade lower than a "C".
3. Earn a GPA of 3.2 or higher for science and mathematics courses.
4. Submit two letters of recommendation. One of these letters must be from the Health Professions Committee at SRU. The letter will address personal growth of the student during Phase I of the program, as well as the student's maturity, responsibility, and desire to become a pharmacist.
5. Demonstrates leadership potential and commitment to the pharmacy profession.
6. Submit a completed application for admission to the LECOM School of Pharmacy.
7. Complete an in-person interview at LECOM. (This interview takes place when applying to the Early Acceptance Program).

PCAT is not required for the Early Acceptance Program

Prospective students should contact LECOM directly for anticipated admission guidelines at 814.866.6641 or at pharmacy@lecom.edu. The Doctor of Pharmacy Degree will be conferred upon successful completion of Phase I and

Phase II of the program, both didactic and clinical, and recommendation by both the faculty and administration of LECOM School of Pharmacy.

Careers in these areas may require professional licensure and certification. Professional licensure and/or certification vary by state and you are urged to check with your state licensing board.

Required courses at SRU:

Biology Courses - Credits: 11

- BIOL 104 - Principles of Biology/Lab Credits: 4
- BIOL 250 - Genetics/Lab Credits: 4
- BIOL 325 - Biometry / Lab Credits: 3

Chemistry Courses - Credits: 16

- CHEM 107 - General Chemistry I Credits: 3
- CHEM 108 - General Chemistry II Credits: 3
- CHEM 111 - General Chemistry I Lab Credits: 1
- CHEM 112 - General Chemistry II Lab Credits: 1
- CHEM 201 - Organic Chemistry I Credits: 3
- CHEM 202 - Organic Chemistry II Credits: 3
- CHEM 211 - Organic Chemistry Laboratory I Credits: 1
- CHEM 212 - Organic Chemistry Laboratory II Credits: 1

Mathematics Course - Credits: 4

- MATH 225 - Calculus I Credits: 4

Physics Courses - Credits: 4

- PHYS 211 - General Physics I/ Lab Credits: 4

Other Courses - Credits: 30

- Computer Science
- College Writing I & II
- Public Speaking
- Economics
- Psychology or Sociology
- Behavioral Science
- Liberal Studies (9)

Biology (BS) - Medical Technology

Department of Biology

Slippery Rock University's medical technology program involves three academic years of study on campus and one calendar year at an approved, affiliated school of medical technology or one acceptable to SRU. During the first three years of the program the student must complete a minimum of 91 semester credits.

After the sophomore year, the student applies for admission to a school of medical technology where acceptance is on a competitive basis. Successful completion of the internship program results in the awarding of the bachelor of science degree. Certification as a medical technologist is obtained by passing the Board of Registry Medical Technologists examination of the American Society of Clinical Pathologists and/or the Clinical Laboratory Scientist examination of the National Certification Agency for Medical Laboratory Personnel. Because of the nature of the medical technology curriculum, transfer students are strongly urged to earn 64 credits at Slippery Rock University.

Slippery Rock University is formally affiliated with the Altoona Hospital, Altoona, PA; Rochester General Hospital, Rochester, NY; St. Vincent Health Center, Erie, PA; WCA Hospital, Jamestown, NY; and York Hospital, York, PA.

Note: A 2.000 average must be maintained in BIOL 104, 210, 213, 214, 215, 216, 217 and 250 before medical technology students can move on to the next required course. See also Department of Biology guidelines for further restrictions.

This program prepares you to sit for a national exam that may lead to professional licensure and/or certification. Professional licensure and/or certification vary by state and you are urged to check with your state licensing board.

Requirements for the Major - Credits: 60

Biology Core Requirements - Credits: 17

Before progressing to a 200-level course, students must achieve a minimum 2.000 average in the 100-level basic requirements course. Students may register in 200-level biology courses in any order but must maintain a biology average of 2.0 or better, before progressing to another course. A student must repeat any 200-level biology course that brings the biology average below a 2.000. Students should try to complete all 200-level biology requirements by the end of their sophomore year.

- BIOL 104 - Principles of Biology/Lab Credits: 4
- BIOL 210 - Medical Microbiology/Lab Credits: 3
- BIOL 216 - Anatomy and Physiology I /Lab Credits: 3
- BIOL 217 - Anatomy and Physiology II/Lab Credits: 3
- BIOL 250 - Genetics/Lab Credits: 4

Required Upper Level Biology - Credits: 7

- BIOL 316 - Medical Immunology/Lab Credits: 1
- BIOL 330 - Microbiology/Lab Credits: 3
- BIOL 335 - Cell Biology/Lab Credits: 3
- OR
- BIOL 370 - Molecular Biology/Lab Credits: 3

Upper Level Biology Electives - Credits: 2

Students must take 2 of the following courses:

- BIOL 314 - Medical Parasitology/Lab Credits: 1
- BIOL 315 - Medical Mycology/Lab Credits: 1
- BIOL 319 - Medical Virology with a Lab Credits: 1

Related Sciences - Credits: 16

- CHEM 108 - General Chemistry II Credits: 3
- CHEM 112 - General Chemistry II Lab Credits: 1
- CHEM 201 - Organic Chemistry I Credits: 3
- CHEM 202 - Organic Chemistry II Credits: 3
- CHEM 211 - Organic Chemistry Laboratory I Credits: 1
- CHEM 212 - Organic Chemistry Laboratory II Credits: 1
- CHEM 335 - Biochemistry I Credits: 3
- CHEM 336 - Biochemistry Laboratory I Credits: 1

Clinical Internship - Credits: 18

Minimum of 91 hours on campus plus 1 year (12 months) at an affiliated School of Medical Technology or one acceptable to Slippery Rock University.

- NSM 390 - Clinical Experience Credits: 32
Credits needed for Clinical Experience = 18

Natural Science & Math College Wide Requirements - Credits: 12

- CHEM 107 - General Chemistry I Credits: 3
- CHEM 111 - General Chemistry I Lab Credits: 1
- MATH 225 - Calculus I Credits: 4
- PHYS 211 - General Physics I/ Lab Credits: 4

Electives - Credits: 14

- NSM 390 - Clinical Experience Credits: 32

NOTE:

This track requires STAT 152 in the enrichment block of the liberal studies requirements.

Biology (BS) - Professional

See the Department of Biology for more information.

Students seeking state certification in secondary education must also complete requirements for a Master of Education degree, a one-year program at SRU. All of our programs are designed to steadily develop the quantitative, deductive and inductive reasoning skills that biologists must have.

Requirements for the Major - Credits: 59-60

Biology Core Requirements - Credits: 16

- BIOL 104 - Principles of Biology/Lab Credits: 4
- BIOL 201 - General Botany/Lab Credits: 4
- BIOL 212 - General Zoology/Lab Credits: 4
- BIOL 250 - Genetics/Lab Credits: 4

Required Upper Level Biology - Credit: 1

- BIOL 492 - Biology Seminar Credits: 1

Upper Level Biology Electives - Credits: 15

- BIOL 325 - Biometry / Lab Credits: 3
- BIOL 330 - Microbiology/Lab Credits: 3
- BIOL 335 - Cell Biology/Lab Credits: 3
- BIOL 340 - Vertebrate Anatomy/Lab Credits: 3
- BIOL 370 - Molecular Biology/Lab Credits: 3
- BIOL 401 - Ecology/Lab Credits: 3
- BIOL 451 - Plant Physiology / Lab Credits: 3

Additional Upper Level Biology Electives - Credits: 6

Select two courses from the above or any approved 300 or 400-level biology major courses. Additional electives may be selected from the Marine Science offerings.

Independent Study Option - Credits: 3

Independent Study Option - Choose from BIOL 490 or Non-Independent Study Option. Choose one additional 300/400 level Biology Marine Science from allowable list above.

- BIOL 490 - Independent Study Credits: 1 to 3
OR
BIOL 3**/4**
OR
MARS 3**/4**

Major Field Test

Required of all Biology students before graduation.

Related Sciences - Credits: 12

- CHEM 108 - General Chemistry II Credits: 3

- CHEM 112 - General Chemistry II Lab Credits: 1
- CHEM 201 - Organic Chemistry I Credits: 3
- CHEM 202 - Organic Chemistry II Credits: 3
- CHEM 211 - Organic Chemistry Laboratory I Credits: 1
- CHEM 212 - Organic Chemistry Laboratory II Credits: 1

Related Sciences - Chemistry Advanced - Credits: 3

- BIOL 301 - Forest Ecology Credits: 3
- BIOL 335 - Cell Biology/Lab Credits: 3

Related Sciences - Physics - Credits: 3-4

Any BIOL 300/400 level with exception of BIOL 300, 314, 315, 316, 319, 345 or:

- PHYS 213 - General Physics III/ Lab Credits: 4

Natural Science and Math College Wide Requirements - Credits: 12

- CHEM 107 - General Chemistry I Credits: 3
- CHEM 111 - General Chemistry I Lab Credits: 1
- MATH 225 - Calculus I Credits: 4
- PHYS 211 - General Physics I/ Lab Credits: 4

Biology (BS) - Professional - Bioinformatics Concentration

See the Department of Biology for more information.

Students seeking state certification in secondary education must also complete requirements for a Master of Education degree, a one-year program at SRU. All of our programs are designed to steadily develop the quantitative, deductive and inductive reasoning skills that biologists must have.

Concentration in Bioinformatics - Biology is available as an *optional* component to the B.S. Biology - Professional Track.

Requirements for the Major - Credits: 59-60

Biology Core Requirements - Credits: 16

- BIOL 104 - Principles of Biology/Lab Credits: 4
- BIOL 201 - General Botany/Lab Credits: 4
- BIOL 212 - General Zoology/Lab Credits: 4
- BIOL 250 - Genetics/Lab Credits: 4

Required Upper Level Biology - Credit: 1

- BIOL 492 - Biology Seminar Credits: 1

Upper Level Biology Electives - Credits: 15

- BIOL 325 - Biometry / Lab Credits: 3
- BIOL 330 - Microbiology/Lab Credits: 3
- BIOL 335 - Cell Biology/Lab Credits: 3
- BIOL 340 - Vertebrate Anatomy/Lab Credits: 3
- BIOL 370 - Molecular Biology/Lab Credits: 3
- BIOL 401 - Ecology/Lab Credits: 3
- BIOL 410 - Animal Physiology/Lab Credits: 3
- BIOL 451 - Plant Physiology / Lab Credits: 3

Additional Upper Level Biology Electives - Credits: 6

Select two courses from the above or any approved 300 or 400-level biology major courses. Additional electives may be selected from the Marine Science offerings.

Independent Study Option - Credits: 3

Choose from BIOL 490 or Non-Independent Study Option. Choose one additional 300/400 level Biology/Marine Science course from the previous list.

- BIOL 490 - Independent Study Credits: 1 to 3
OR
BIOL 3**/4**
OR
MARS 3**/4**

Major Field Test

Required of all Biology students before graduation.

Related Sciences - Credits: 12

- CHEM 108 - General Chemistry II Credits: 3
- CHEM 112 - General Chemistry II Lab Credits: 1
- CHEM 201 - Organic Chemistry I Credits: 3
- CHEM 202 - Organic Chemistry II Credits: 3
- CHEM 211 - Organic Chemistry Laboratory I Credits: 1
- CHEM 212 - Organic Chemistry Laboratory II Credits: 1

Related Sciences - Chemistry Advanced - Credits: 3

- CHEM 301 - Physical Chemistry 1 Credits: 3
- CHEM 335 - Biochemistry I Credits: 3

Related Sciences - Physics - Credits: 3-4

Any BIOL 300/400 level with exception of BIOL 300, 314, 315, 316, 319, 345 or:

- PHYS 213 - General Physics III/ Lab Credits: 4

Natural Science and Math College Wide Requirements - Credits: 12

- CHEM 107 - General Chemistry I Credits: 3
- CHEM 111 - General Chemistry I Lab Credits: 1
- MATH 225 - Calculus I Credits: 4
- PHYS 211 - General Physics I/ Lab Credits: 4

Concentration in Bioinformatics - Biology

Advances in genetics and molecular biology, and the impetus of the genome project, has generated a need for using computational sciences to understand biochemical processes. This concentration will prepare students in the interdisciplinary area of Bioinformatics consisting of coursework from biology, computer science, chemistry and mathematics. The concentration in Bioinformatics will allow students to either obtain jobs or pursue graduate school in the areas of bioinformatics, cellular and systems biology, genomics and proteomics, molecular structural biology, biochemistry, drug discovery, drug design, protein structure, gene finding and genome assembly to name a few.

- CPSC 146 - Programming Principles Credits: 3
- CPSC 246 - Advanced Programming Principles Credits: 3
- CPSC 374 - Algorithms and Data Structures Credits: 3
- CPSC 480 - Topics in Computer Science: Machine Learning Credits: 3
- MATH 230 - Calculus II Credits: 4

Biology (BS) - Professional - LECOM Dental 4+4

This agreement establishes an Early Acceptance Program to which Slippery Rock University undergraduate students are enrolled jointly by Slippery Rock University and by LECOM. The Early Acceptance Program is designed to facilitate the admission of Slippery Rock University students into LECOM's Doctor of Dental Medicine program. LECOM will interview the student prior to their enrollment at Slippery Rock University or within the first two years of study at Slippery Rock University. Students interviewing successfully will be offered a provisional acceptance to LECOM's Doctor of Dental Medicine program. Upon meeting the criteria for final acceptance, they will matriculate at the LECOM Bradenton, FL campus.

Because this is a demanding professional program, the requirements listed for acceptance have been established to demonstrate that the student is capable of handling the rigorous course load.

The Early Acceptance Program is comprised of two phases. Phase 1 consists of four years of undergraduate education at Slippery Rock University. Phase 2 consists of four years of dental school education at LECOM and its associated clinical training sites.

Careers in these areas may require professional licensure and certification. Professional licensure and/or certification vary by state and you are urged to check with your state licensing board.

Major Department - Credits: 59-60

Core Requirements - Credits: 16

- BIOL 104 - Principles of Biology/Lab Credits: 4
- BIOL 201 - General Botany/Lab Credits: 4
- BIOL 212 - General Zoology/Lab Credits: 4
- BIOL 250 - Genetics/Lab Credits: 4

Required Upper Level Biology - Credits: 1

- BIOL 492 - Biology Seminar Credits: 1

Upper Level Biology Electives - Credits: 15

- BIOL 325 - Biometry / Lab Credits: 3
- BIOL 330 - Microbiology/Lab Credits: 3
- BIOL 335 - Cell Biology/Lab Credits: 3
- BIOL 340 - Vertebrate Anatomy/Lab Credits: 3
- BIOL 370 - Molecular Biology/Lab Credits: 3
- BIOL 401 - Ecology/Lab Credits: 3
- BIOL 410 - Animal Physiology/Lab Credits: 3
- BIOL 451 - Plant Physiology / Lab Credits: 3

Electives - Credits: 6

Select 2 additional courses (6 credits) from the above list or any 300/400 level courses agreed upon with the academic adviser. Additional electives may be selected from the Marine Science offerings. Pymatuning Laboratory Ecology courses are only offered during the summer term.

Independent Study Option - Credits: 3

Independent Study Option - Choose from BIOL 490 or

Non-Independent Study Option - Choose one additional 300/400 level Biology/Marine Science course from previous list.

- BIOL 3**/4**
OR
- BIOL 490 - Independent Study Credits: 1 to 3

Major Field Test

Required of all Biology students before graduation.

Related Sciences - Credits: 18

Chemistry - Credits: 12

- CHEM 108 - General Chemistry II Credits: 3
- CHEM 112 - General Chemistry II Lab Credits: 1
- CHEM 201 - Organic Chemistry I Credits: 3
- CHEM 202 - Organic Chemistry II Credits: 3
- CHEM 211 - Organic Chemistry Laboratory I Credits: 1
- CHEM 212 - Organic Chemistry Laboratory II Credits: 1

Related Sciences - Chemistry Advanced Elective - Credits: 3

- CHEM 301 - Physical Chemistry I Credits: 3
- CHEM 335 - Biochemistry I Credits: 3

Physics - Credits: 3

- PHYS 213 - General Physics III/ Lab Credits: 4

College Requirements - Credits: 12

Chemistry - Credits: 3

- CHEM 107 - General Chemistry I Credits: 3
- CHEM 111 - General Chemistry I Lab Credits: 1

Mathematics - Credits: 4

- MATH 225 - Calculus I Credits: 4

Physics - Credits: 3-4

Any BIOL 300/400 level with exception of BIOL 300, 314, 315, 316, 345 or:

- PHYS 211 - General Physics I/ Lab Credits: 4

Biology (BS) - Professional - LECOM Osteopathic 4+4

There are 2 tracks to this major - Independent Study Option and Non-Independent Study Option. If completing the Non-Independent Study Option, one additional Major Department elective will be required.

Major Requirements - Credits: 59-60

Biology Core Requirements - Credits: 16

- BIOL 104 - Principles of Biology/Lab Credits: 4
- BIOL 201 - General Botany/Lab Credits: 4
- BIOL 212 - General Zoology/Lab Credits: 4
- BIOL 250 - Genetics/Lab Credits: 4

Required Upper Level Biology - Credit: 1

- BIOL 492 - Biology Seminar Credits: 1

Upper Level Biology Electives - Credits: 15

- BIOL 325 - Biometry / Lab Credits: 3
- BIOL 330 - Microbiology/Lab Credits: 3
- BIOL 335 - Cell Biology/Lab Credits: 3
- BIOL 340 - Vertebrate Anatomy/Lab Credits: 3
- BIOL 370 - Molecular Biology/Lab Credits: 3
- BIOL 401 - Ecology/Lab Credits: 3
- BIOL 410 - Animal Physiology/Lab Credits: 3
- BIOL 451 - Plant Physiology / Lab Credits: 3

Additional Upper Level Biology Electives - Credits: 6

Select 2 additional courses (6 credits) from the above list or any 300/400 level courses agreed upon with the academic adviser. Additional electives may be selected from the Marin Science offerings. Pymatuning Laboratory Ecology courses are only offered during the summer term.

Independent Study Option - Credits: 3

Independent Study Option - Choose from BIOL 490 or Non-Independent Study Option - Choose one additional 300/400 level Biology/Marine Science course from previous allowable list.

- BIOL 490 - Independent Study Credits: 1 to 3
OR
BIOL 3**/4**
OR
MARS 3**/4**

Major Field Test

Required of all Biology students before graduation.

Related Sciences - Credits: 12

- CHEM 108 - General Chemistry II Credits: 3
- CHEM 112 - General Chemistry II Lab Credits: 1
- CHEM 201 - Organic Chemistry I Credits: 3
- CHEM 202 - Organic Chemistry II Credits: 3

- CHEM 211 - Organic Chemistry Laboratory I Credits: 1
- CHEM 212 - Organic Chemistry Laboratory II Credits: 1

Related Sciences - Chemistry Advanced - Credits: 3

- CHEM 301 - Physical Chemistry 1 Credits: 3
- CHEM 335 - Biochemistry I Credits: 3

Physics - Credits: 3-4

- PHYS 213 - General Physics III/ Lab Credits: 4
OR
Any BIOL 300/400 level with exception of BIOL 300, 314, 315, 316, 319, 345.

Natural Science and Math College-Wide Requirements - Credits: 12

- CHEM 107 - General Chemistry I Credits: 3
- CHEM 111 - General Chemistry I Lab Credits: 1
- MATH 225 - Calculus I Credits: 4
- PHYS 211 - General Physics I/ Lab Credits: 4

Electives and Liberal Studies

Choose free electives and complete Liberal Studies requirements to equal a minimum of 120 credits.

Biology (BS) - Professional - Logan Chiropractic 3+3.3

Careers in these areas may require professional licensure and certification. Professional licensure and/or certification vary by state and you are urged to check with your state licensing board.

Major Department - 23 Credits

Basic Requirements - 16 Credits

- BIOL 104 - Principles of Biology/Lab Credits: 4
- BIOL 201 - General Botany/Lab Credits: 4
- BIOL 212 - General Zoology/Lab Credits: 4
- BIOL 250 - Genetics/Lab Credits: 4

Additional Requirements - 7 Credits

- BIOL 330 - Microbiology/Lab Credits: 3
- BIOL 350 - Evolution Credits: 3
- BIOL 492 - Biology Seminar Credits: 1

Related Sciences - 18 Credits

Chemistry - 15 Credits

- CHEM 108 - General Chemistry II Credits: 3
- CHEM 112 - General Chemistry II Lab Credits: 1
- CHEM 201 - Organic Chemistry I Credits: 3
- CHEM 202 - Organic Chemistry II Credits: 3
- CHEM 211 - Organic Chemistry Laboratory I Credits: 1
- CHEM 212 - Organic Chemistry Laboratory II Credits: 1
- CHEM 335 - Biochemistry I Credits: 3

Physics - 3 Credits

- PHYS 213 - General Physics III/ Lab Credits: 4

College Requirements - 12 Credits

Chemistry - 4 Credits

- CHEM 107 - General Chemistry I Credits: 3
- CHEM 111 - General Chemistry I Lab Credits: 1

Mathematics - 4 Credits

- MATH 225 - Calculus I Credits: 4

Physics - 4 Credits

- PHYS 211 - General Physics I/ Lab Credits: 4

Liberal Studies Requirements

Completion of First Year At Logan Chiropractic

Must equal minimum of 120 credits.

Biology (BS) - Professional - Palmer Chiropractic 3+3.3

Careers in these areas may require professional licensure and certification. Professional licensure and/or certification vary by state and you are urged to check with your state licensing board.

Major Department - 23 Credits

Basic Requirements - 16 Credits

- BIOL 104 - Principles of Biology/Lab Credits: 4
- BIOL 201 - General Botany/Lab Credits: 4
- BIOL 212 - General Zoology/Lab Credits: 4
- BIOL 250 - Genetics/Lab Credits: 4

Additional Requirements - 7 Credits

- BIOL 330 - Microbiology/Lab Credits: 3
- BIOL 340 - Vertebrate Anatomy/Lab Credits: 3
- BIOL 492 - Biology Seminar Credits: 1

Related Sciences - 18 Credits

Chemistry - 15 Credits

- CHEM 108 - General Chemistry II Credits: 3
- CHEM 112 - General Chemistry II Lab Credits: 1
- CHEM 201 - Organic Chemistry I Credits: 3
- CHEM 202 - Organic Chemistry II Credits: 3
- CHEM 211 - Organic Chemistry Laboratory I Credits: 1
- CHEM 212 - Organic Chemistry Laboratory II Credits: 1
- CHEM 335 - Biochemistry I Credits: 3

Physics - 3 Credits

- PHYS 213 - General Physics III/ Lab Credits: 4

College Requirements - 12 Credits

Chemistry - 4 Credits

- CHEM 107 - General Chemistry I Credits: 3
- CHEM 111 - General Chemistry I Lab Credits: 1

Mathematics - 4 Credits

- MATH 225 - Calculus I Credits: 4

Physics - 4 Credits

- PHYS 211 - General Physics I/ Lab Credits: 4

Liberal Studies Requirements

Completion of First Year At Palmer Chiropractic

Must equal minimum of 120 credits.

Biology (BS) - Professional - Physical Therapy 3+3

Department of Biology

The Biology Department offers a 3+3 option for students interested in a career in physical therapy. Undergraduate students work with their academic advisor to complete the courses needed to fulfill the requirements for both an undergraduate degree and the entrance requirements for the Doctor of Physical Therapy program.

The first year of the Doctor of Physical Therapy (DPT) program meets the requirements for the fourth year of the undergraduate degree. Approved undergraduate majors in Public Health, Safety Management, Therapeutic Recreation, and Exercise Science are also available for the 3+3 option. Other majors can be used to pursue the DPT, but students cannot apply until after completing their undergraduate degree and they, too, must meet all DPT admission criteria.

Requirements for the Physical Therapy 3+3 Biology (BS):

- Student must maintain a 3.0 or higher GPA.
- Student may not have more than one "W" in a required course in the 3+3 block.
- Student can only be in the 3+3 program for a maximum of three (3) years full-time continuous enrollment.
- Only Slippery Rock University students are eligible for this 3+3 option.

If any of these requirements are not met, the 3+3 designation will be removed from the student's record by the faculty advisor.

Highlights of the DPT Program at Slippery Rock University:

- Program is eight semesters in length, three academic years plus two summers.
- Strong foundation in basic sciences, including two semesters of cadaver anatomy, neuroscience, and pathophysiology.
- Three semesters of evidence-based practice coursework
- Two semesters of clinical internships each one semester in length.
- Two shorter clinical education experiences.
- Success on state board examination exceeds state and national average.
- Opportunities for graduate assistantships.
- Dedicated PT building 45,000 square feet
- Accredited by the Commission on Accreditation of Physical Therapy Education (CAPTE)

The curriculum requires each student to choose a facet of the profession to explore including one of the following areas service-learning, specialty care, administration, research or teaching.

Slippery Rock 3+3 Students Entering the Doctor of Physical Therapy program

Should 3+3 Physical Therapy students be unsuccessful in completing the 1st year (either Fall and/or Spring Semester) of the DPT program and want to complete their original undergraduate degree, it is solely up to the discretion of their undergraduate program coordinator to determine which, if any, physical therapy courses will count toward the

completion of their undergraduate degree. In addition, students must complete any unfulfilled requirements of his/her undergraduate major. *Participation in the undergraduate commencement ceremony takes place after the first full year of Physical Therapy school is successfully completed.*

Careers in these areas may require professional licensure and certification. Professional licensure and/or certification vary by state and you are urged to check with your state licensing board.

Degree Completion in Six Years Biology (BS)

Freshman Year - Total Hours: 35

- Liberal Studies/Elective Credits: 10
- BIOL 104 - Principles of Biology/Lab Credits: 4
- BIOL 201 - General Botany/Lab Credits: 4
- CHEM 107 - General Chemistry I Credits: 3
- CHEM 108 - General Chemistry II Credits: 3
- CHEM 111 - General Chemistry I Lab Credits: 1
- CHEM 112 - General Chemistry II Lab Credits: 1
- ENGL 104 - Critical Reading Credits: 3

Sophomore Year - Total Hours: 29

- Liberal Studies/Electives Credits: 6
- BIOL 212 - General Zoology/Lab Credits: 4
- BIOL 250 - Genetics/Lab Credits: 4
- CHEM 201 - Organic Chemistry I Credits: 3
- CHEM 202 - Organic Chemistry II Credits: 3
- CHEM 211 - Organic Chemistry Laboratory I Credits: 1
- CHEM 212 - Organic Chemistry Laboratory II Credits: 1
- COMM 200 - Civil Discourse Credits: 3
- MATH 225 - Calculus I Credits: 4

Junior Year - Total Hours: 34

- Liberal Studies/Electives Credits: 6
- BIOL 325 - Biometry / Lab Credits: 3
- BIOL 330 - Microbiology/Lab Credits: 3
- BIOL 340 - Vertebrate Anatomy/Lab Credits: 3
- BIOL 410 - Animal Physiology/Lab Credits: 3
- CHEM 335 - Biochemistry I Credits: 3
- PHYS 211 - General Physics I/ Lab Credits: 4
- PHYS 213 - General Physics III/ Lab Credits: 4

Senior Year

DEFINED BY THE DPT PROGRAM

Biology (BS) - Professional - Pre-Physician Assistant 3+2

The Biology Program offers a Pre-Physician Assistant 3+2 option for students interested in a career as a Physician Assistant. Undergraduate students work with their academic advisor to complete the courses needed to fulfill the requirements for both an undergraduate degree and the admissions requirements for the Master of Science in Physician Assistant Studies program.

The first year of the Master of Science in Physician Assistant Studies program meets the requirements for the fourth year of the undergraduate degree. Approved undergraduate majors in **Exercise Science, Health Science-Public Health, and Psychology** are also available for the Pre-Physician Assistant 3+2 option. Other majors can be used to pursue the Master of Science in Physician Assistant Studies, but students cannot apply until after completing their undergraduate degree and they, too, must meet all Master of Science in Physician Assistant Studies admission criteria.

SLIPPERY ROCK UNIVERSITY PRE-PHYSICIAN ASSISTANT 3+2 REQUIREMENTS

If any of these requirements are not met, the 3+2 designation will be removed from the student's record:

1. A 3.0 or higher overall GPA must be maintained by the student.
2. The student can only be enrolled in the Pre-Physician Assistant 3+2 program for a maximum of three (3) years, full-time continuous enrollment (fall/spring).

Provision for Slippery Rock Pre-Physician Assistant 3+2 Students entering the Master of Science in Physician Assistant Studies program:

Should a Pre-Physician Assistant 3+2 student be unsuccessful in completing the 1st year (any of summer, fall, or spring terms) of the Physician Assistant program and wants to complete the original undergraduate degree, it is solely up to the discretion of the undergraduate program Department Chair to determine which, if any, Physician Assistant courses will count toward the completion of his/her undergraduate degree. In addition, students must complete any unfulfilled requirements of their undergraduate major. Students may still apply to the Physician Assistant Studies program with an earned Bachelor's degree.

For application requirements, please refer to Slippery Rock University's Physician Assistant Studies (Master of Science in Physician Assistant Studies) website.

Careers in these areas may require professional licensure and certification. Professional licensure and/or certification vary by state and you are urged to check with your state licensing board.

Major Requirements - Credits: 38

Required Core Courses - Credits: 16

- BIOL 104 - Principles of Biology/Lab Credits: 4
- BIOL 201 - General Botany/Lab Credits: 4
- BIOL 212 - General Zoology/Lab Credits: 4
- BIOL 250 - Genetics/Lab Credits: 4

Required Upper Division Courses - Credits: 7

- BIOL 325 - Biometry / Lab Credits: 3
- BIOL 330 - Microbiology/Lab Credits: 3
- BIOL 492 - Biology Seminar Credits: 1

Elective Upper Division Courses - Credits: 6

- BIOL 335 - Cell Biology/Lab Credits: 3
- BIOL 340 - Vertebrate Anatomy/Lab Credits: 3
- BIOL 370 - Molecular Biology/Lab Credits: 3
- BIOL 410 - Animal Physiology/Lab Credits: 3

Required Courses from Other Departments - Credits: 9

- CHEM 112 - General Chemistry II Lab Credits: 1
- CHEM 201 - Organic Chemistry I Credits: 3
- CHEM 202 - Organic Chemistry II Credits: 3
- CHEM 211 - Organic Chemistry Laboratory I Credits: 1
- CHEM 212 - Organic Chemistry Laboratory II Credits: 1

College Wide Requirements - Credits: 12

- CHEM 107 - General Chemistry I Credits: 3
- CHEM 111 - General Chemistry I Lab Credits: 1
- MATH 225 - Calculus I Credits: 4
- PHYS 211 - General Physics I/ Lab Credits: 4

Additional Physician Assistant Prerequisite Admission Requirements

If you choose to pursue Pre-Physician Assistant 3+2 Biology and are not accepted into the PA program, then additional coursework is required to complete a first major of Biology-Professional. Please refer to the Biology-Professional Curriculum Guide.

Please refer to the Biology Pre-Physician Assistant SRU 3+2 Curriculum Guide for all prerequisite requirements and policies.

- BIOL 216 - Anatomy and Physiology I /Lab Credits: 3
 - BIOL 217 - Anatomy and Physiology II/Lab Credits: 3
 - ERS 250 - Medical Terminology Credits: 3
- OR
- PA 500 Applied Med Term for PA's Credit: 1

Biology (BS) - Professional - WVU Dental 4+4

Capitalizing on the strength of partnerships, the West Virginia University School of Dentistry(WVUSD) and Slippery Rock University (SRU) Department of Biology are joining together to promote students' seamless progression from university to dental school through the SRU and WVUSD Dental Early Admission Program (DEAP). This joint program helps simplify the dental school admission process while easing the financial burden of the application. DEAP gives a select number of motivated Slippery Rock University Biology students an early introduction to the WVUSD

faculty, students, and alumni while also providing unique opportunities to help prepare them for WVU's challenging dental program. The WVUSD has partnered with SRU's Department of Biology to offer highly qualified rising sophomores at SRU potential early admission to WVU's Doctor of Dental Surgery (D.D.S.) Program. Individuals who complete their first year at SRU and aspire to earn a dental degree are eligible to apply to DEAP. Admission to DEAP is available to a maximum of two students annually through a competitive application and interview process. West Virginia residents receive priority consideration. Because the WVUSD values diversity and recognizes its importance in addressing access to quality oral healthcare, individuals from populations that are under-represented in dental school, including African American, Latino/Hispanic, Native American, first-generation college, and economically disadvantaged, are encouraged to apply.

Slippery Rock University is responsible for DEAP student recruitment since enrollment in SRU is a key program requirement. DEAP applications are available to all SRU students who meet the specified criteria.

There are 2 tracks to this major - Independent Study Option and Non-Independent Study Option. If completing the Non-Independent Study Option, one additional Major Department elective will be required.

Careers in these areas may require professional licensure and certification. Professional licensure and/or certification vary by state and you are urged to check with your state licensing board.

Major Department - 41 Credits

Core Requirements - 16 Credits

- BIOL 104 - Principles of Biology/Lab Credits: 4
- BIOL 201 - General Botany/Lab Credits: 4
- BIOL 212 - General Zoology/Lab Credits: 4
- BIOL 250 - Genetics/Lab Credits: 4

Required Upper Level Biology - Credits: 1

- BIOL 492 - Biology Seminar Credits: 1

Upper Level Biology Electives - 15 Credits

- BIOL 325 - Biometry / Lab Credits: 3
- BIOL 330 - Microbiology/Lab Credits: 3
- BIOL 335 - Cell Biology/Lab Credits: 3
- BIOL 340 - Vertebrate Anatomy/Lab Credits: 3
- BIOL 370 - Molecular Biology/Lab Credits: 3
- BIOL 401 - Ecology/Lab Credits: 3
- BIOL 410 - Animal Physiology/Lab Credits: 3
- BIOL 451 - Plant Physiology / Lab Credits: 3

Electives and Liberal Studies

Choose free electives and complete Liberal Studies requirements to equal a minimum of 120 credits.

Electives - 6 Credits

Select 2 additional courses (6 credits) from the above list or any 300/400 level courses agreed upon with the academic adviser. Additional electives may be selected from the Marine Science offerings. Pymatuning Laboratory Ecology courses are only offered during the summer term.

Related Sciences - 18 Credits

Chemistry - 15 Credits

- CHEM 108 - General Chemistry II Credits: 3
- CHEM 112 - General Chemistry II Lab Credits: 1
- CHEM 201 - Organic Chemistry I Credits: 3
- CHEM 202 - Organic Chemistry II Credits: 3
- CHEM 211 - Organic Chemistry Laboratory I Credits: 1
- CHEM 212 - Organic Chemistry Laboratory II Credits: 1
- CHEM 335 - Biochemistry I Credits: 3

Physics - 3 Credits

- PHYS 213 - General Physics III/ Lab Credits: 4

College Requirements - 12 Credits

Chemistry - 4 Credits

- CHEM 107 - General Chemistry I Credits: 3
- CHEM 111 - General Chemistry I Lab Credits: 1

Mathematics - 4 Credits

- MATH 225 - Calculus I Credits: 4

Physics - 4 Credits

- PHYS 211 - General Physics I/ Lab Credits: 4

Marine Science

Coordinator

Simon Beeching

Marine biology, marine ecology, marine geology and geophysics, chemical oceanography, and physical oceanography are career areas that are best approached through an undergraduate major in one of the basic sciences of biology, chemistry, geology or physics, or through mathematics. Slippery Rock University, through its membership in the

Marine Science Consortium, offers students interested in ocean-related phenomena an opportunity to pursue that interest through a series of summer courses offered at the Chincoteague Bay Field Station, near the Atlantic Ocean in the Virginia eastern shore region. Four three-week summer sessions are offered.

Students interested in marine studies will pursue a major in one of the natural sciences or mathematics at SRU, augmenting their studies with summer courses at the Chincoteague Bay Field Station. The number of summer courses taken will depend on the students' interests and the majors they pursue on campus. Individual programs may be tailored in consultation with an adviser, and the University offers a minor in Marine Science.

The Marine Science Consortium pools the talents and resources of 16 colleges and universities in the mid-Atlantic States. Classrooms, wet and dry laboratories, computer room, a workshop, dock facilities, dormitories, apartments, a cafeteria and recreational facilities are available at or near the Chincoteague Bay Field Station. Several research and training vessels are available for work along the Atlantic coast and the Chesapeake Bay. Some courses offered at the field station may be applied to the liberal studies requirement in the natural sciences so that any Slippery Rock University student, regardless of major, may take advantage of a first-hand experience in the marine environment. Advisement from one of the Slippery Rock University faculty members associated with the consortium is recommended for any student using Marine Science Consortium courses to fulfill the liberal studies requirement in science. Students should contact the Department of Geography, Geology, and the Environment or the Department of Biology for names of the advisers.

Minor in Biology

Department of Biology

Requirements for the Minor - Credits: 22

Required Courses: 16 credits

Choose one 100 level course with lab: 4 credits

Choose one 100 level course with lab (4 credits)

- BIOL 100 - Introductory Biology Laboratory Credits: 1
AND
- BIOL 101 - General Biology Credits: 3
- BIOL 104 - Principles of Biology/Lab Credits: 4

200 Level Requirement - Credits: 12

Take each of the following in any order. These courses must be taken before enrolling into 300/400 level biology courses.

- BIOL 201 - General Botany/Lab Credits: 4
- BIOL 212 - General Zoology/Lab Credits: 4
- BIOL 250 - Genetics/Lab Credits: 4

Electives 300/400 Level Requirements - Credits: 6

Select a minimum of six credits at the 300 level or above. Consult your degree audit for a complete listing of courses.

Minor in Marine Science

Chincoteague Bay Field Station

Requirements for the Minor - Minimum Credits: 26

Required Courses - Credits: 23-24

Biology Courses - Credits: 3-4

- BIOL 101 - General Biology Credits: 3
or
- BIOL 104 - Principles of Biology/Lab Credits: 4

Chemistry Courses - Credits: 8

- CHEM 107 - General Chemistry I Credits: 3
- CHEM 108 - General Chemistry II Credits: 3
- CHEM 111 - General Chemistry I Lab Credits: 1
- CHEM 112 - General Chemistry II Lab Credits: 1

Environmental Geosciences Courses - Credits: 3

- EGEO 131 - Oceanography Credits: 3

Marine Science Courses - Credits: 12

- MARS 241 - Marine Biology/Lab Credits: 3
- MARS 331 - Chemical Oceanography/Lab Credits: 3
- MARS 362 - Marine Geology/Lab Credits: 3
plus 3 additional credits at 300/400 level from the Marine Science course list.

Chemistry

272 Advanced Technology and Science Hall
724-738-2031

Chemistry

- Prepare students for scientific career opportunities in industry and government.
- Prepare students for graduate study in biotechnology, chemistry, biology, physics, and environmental science
- Prepare students for entrance into schools of medicine, dentistry, veterinary medicine, optometry, nursing, physical therapy, engineering, medical technology, environmental science, pharmacy, and allied public health fields.
- Prepare students to enter the teaching profession in Elementary and Secondary Science Education.

Chair

Susan Zirpoli

Secretary

Lisa Hammers

Faculty

Paul Birckbichler, Thaddeus Boron, David Frohnappel, George Lengyel, Ashley Loe, Min Soo Lim, Michael Stapleton, Qi Chen, Donald Zapien, Susan Zirpoli

"Slippery Rock was a life-altering experience for me. The chemistry courses I took as a freshman, and great professors, set my life's direction."

Randy Russell
Chairman and President of Ranbar Technology, Inc.
and Ranbar Electrical Materials, Inc.
Vice Chairman of Preservation Technologies, LLP

Chemistry (BA)

Chemistry Department

A chemistry major studies the chemical properties of substances in order to develop the ability to make discoveries and to solve the vast array of problems associated with existing technologies. Four programs of study leading to a bachelor of science degree and one leading to a bachelor of arts degree are available. The bachelor of arts program allows students to choose more elective courses in order to link chemistry with some other interest such as marketing/sales or patent law. The bachelor of science programs in biochemistry, environmental chemistry, forensic chemistry and general chemistry prepare students for postgraduate education and careers in industry, government, medicine and education. Students seeking state certification in secondary education must also complete requirements for a Master of Education degree, a one-year program at SRU. All of our programs are designed to steadily develop the quantitative, deductive and inductive reasoning skills that chemists must have.

The science and math course requirements taken during the first two years in our programs are almost identical. Consequently, students do not have to choose a specific specialization until their junior year.

A pharmacy option in the biochemistry program enables students to take advantage of a 3 + 3 affiliation agreement with the Lake Erie College of Osteopathic Medicine's School of Pharmacy. Admission to the three-year pharmacy part of the program is competitive (see Pre-professional Programs).

All of our students are strongly encouraged to do research under the direction of one of our faculty. Three laboratories exist solely for student research, and student/faculty research is supported by modern analytical instrumentation in our spectroscopy and chromatography laboratories.

SRU graduates perform research and development at large corporations and small companies. Others are high school teachers and university professors. Some eventually move into careers in management or sales. Many have completed postgraduate programs in chemistry, engineering, medicine and other science related areas. The chemistry faculty at Slippery Rock University help students develop career goals that match their interests and this is reflected in the wide variety of careers our graduates pursue.

College-Wide Requirements - Credits: 12

- CHEM 107 - General Chemistry I Credits: 3
- CHEM 111 - General Chemistry I Lab Credits: 1
- MATH 125 - Precalculus Credits: 4
- OR
- MATH 225 - Calculus I Credits: 4
- PHYS 201 - Elements of Physics I/ Lab Credits: 4
- OR
- PHYS 211 - General Physics I/ Lab Credits: 4

Requirements for the Major - Credits: 40

Students must earn at least a "C" or better in CHEM 108, CHEM 112, CHEM 201, and CHEM 202 to register for Chemistry courses numbered 300 or above.

Chemistry Courses - Credits: 28

- CHEM 108 - General Chemistry II Credits: 3
- CHEM 112 - General Chemistry II Lab Credits: 1
- CHEM 201 - Organic Chemistry I Credits: 3
- CHEM 202 - Organic Chemistry II Credits: 3
- CHEM 211 - Organic Chemistry Laboratory I Credits: 1
- CHEM 212 - Organic Chemistry Laboratory II Credits: 1
- CHEM 321 - Physical Chemistry Laboratory I Credits: 1
- CHEM 335 - Biochemistry I Credits: 3
- CHEM 336 - Biochemistry Laboratory I Credits: 1
- CHEM 350 - Analytical Chemistry Credits: 3
- CHEM 351 - Analytical Chemistry Lab Credits: 1
- CHEM 442 - Inorganic Chemistry Credits: 3
- CHEM 452 - Physical Inorganic Chemistry Laboratory Credits: 1

Chemistry Elective - Credits: 4

- CHEM 337 - Biochemistry II Credits: 3
- CHEM 338 - Biochemistry Laboratory II Credits: 1
- CHEM 340 - Air Quality Assessment/Lab Credits: 4
- CHEM 370 - Water Quality Assessment/Lab Credits: 4
- CHEM 425 - Instrumental Analysis Credits: 3
- CHEM 426 - Instrumental Analysis Laboratory Credits: 1
- CHEM 460 - Materials Chemistry Credits: 3

- CHEM 475 - Advanced Organic Synthesis/Lab Credits: 4
- CHEM 490 - Independent Study Credits: 1 to 3

Mathematics Courses - Credits: 4

- MATH 230 - Calculus II Credits: 4

Physics Courses - Credits: 4

- PHYS 213 - General Physics III/ Lab Credits: 4

Chemistry (BS) - Education Concentration

Major Requirements - Credits: 56

Required Introductory Chemistry Courses - Credits: 4

- CHEM 108 - General Chemistry II Credits: 3
- CHEM 112 - General Chemistry II Lab Credits: 1

Required Foundation Chemistry Courses - Credits: 22

- CHEM 201 - Organic Chemistry I Credits: 3
- CHEM 211 - Organic Chemistry Laboratory I Credits: 1
- CHEM 243 - Introduction to Research in Chemistry Credits: 1
- CHEM 301 - Physical Chemistry 1 Credits: 3
- CHEM 321 - Physical Chemistry Laboratory I Credits: 1
- CHEM 335 - Biochemistry I Credits: 3
- CHEM 336 - Biochemistry Laboratory I Credits: 1
- CHEM 350 - Analytical Chemistry Credits: 3
- CHEM 351 - Analytical Chemistry Lab Credits: 1
- CHEM 442 - Inorganic Chemistry Credits: 3
- CHEM 452 - Physical Inorganic Chemistry Laboratory Credits: 1
- CHEM 491 - Chemistry Seminar Credits: 1

Required In-Depth Chemistry Courses - Credits: 14

- CHEM 202 - Organic Chemistry II Credits: 3
- CHEM 212 - Organic Chemistry Laboratory II Credits: 1
- CHEM 302 - Physical Chemistry II Credits: 3
- CHEM 425 - Instrumental Analysis Credits: 3
- CHEM 426 - Instrumental Analysis Laboratory Credits: 1
- CHEM 460 - Materials Chemistry Credits: 3

Additional Required In-Depth Chemistry Courses - Credits: 4

Choose one lecture and one laboratory course.

- CHEM 337 - Biochemistry II Credits: 3
- CHEM 338 - Biochemistry Laboratory II Credits: 1
- CHEM 340 - Air Quality Assessment/Lab Credits: 4
- CHEM 370 - Water Quality Assessment/Lab Credits: 4
- CHEM 415 - Forensic Analysis Credits: 3
- CHEM 416 - Forensic Analysis Lab Credits: 1
- CHEM 475 - Advanced Organic Synthesis/Lab Credits: 4

Cognate Courses - Credits: 12

- BIOL 104 - Principles of Biology/Lab Credits: 4
- MATH 230 - Calculus II Credits: 4
- PHYS 213 - General Physics III/ Lab Credits: 4

Natural Science and Mathematics College Wide Requirement - Credits: 12

- CHEM 107 - General Chemistry I Credits: 3
- CHEM 111 - General Chemistry I Lab Credits: 1
- MATH 225 - Calculus I Credits: 4
- PHYS 211 - General Physics I/ Lab Credits: 4

Education Concentration - Credits: 13

- CPSC 146 - Programming Principles Credits: 3
- EGEO 101 - Physical Geology Credits: 3
- EGEO 111 - Physical Geology Lab Credits: 1
- SEFE 338 - Standards-Based Instruction & Assessment in the Inclusionary Classroom Credits: 3
- SEFE 342 - Educational Psychology for Diverse Learners Credits: 3

Electives

- CHEM 490 - Independent Study Credits: 1 to 3

Chemistry (BS) - Health Sciences Concentration

Major Requirements - Credits: 56

Required Introductory Chemistry Courses - Credits: 4

- CHEM 108 - General Chemistry II Credits: 3
- CHEM 112 - General Chemistry II Lab Credits: 1

Required Foundation Chemistry Courses - Credits: 22

- CHEM 201 - Organic Chemistry I Credits: 3
- CHEM 211 - Organic Chemistry Laboratory I Credits: 1
- CHEM 243 - Introduction to Research in Chemistry Credits: 1
- CHEM 301 - Physical Chemistry 1 Credits: 3
- CHEM 321 - Physical Chemistry Laboratory I Credits: 1
- CHEM 335 - Biochemistry I Credits: 3
- CHEM 336 - Biochemistry Laboratory I Credits: 1
- CHEM 350 - Analytical Chemistry Credits: 3
- CHEM 351 - Analytical Chemistry Lab Credits: 1
- CHEM 442 - Inorganic Chemistry Credits: 3
- CHEM 452 - Physical Inorganic Chemistry Laboratory Credits: 1
- CHEM 491 - Chemistry Seminar Credits: 1

Required In-Depth Chemistry Courses - Credits: 14

- CHEM 202 - Organic Chemistry II Credits: 3
- CHEM 212 - Organic Chemistry Laboratory II Credits: 1
- CHEM 302 - Physical Chemistry II Credits: 3
- CHEM 425 - Instrumental Analysis Credits: 3
- CHEM 426 - Instrumental Analysis Laboratory Credits: 1
- CHEM 460 - Materials Chemistry Credits: 3

Additional Required In-Depth Chemistry Courses - Credits: 4

- CHEM 337 - Biochemistry II Credits: 3
- CHEM 338 - Biochemistry Laboratory II Credits: 1
- CHEM 340 - Air Quality Assessment/Lab Credits: 4
- CHEM 370 - Water Quality Assessment/Lab Credits: 4
- CHEM 415 - Forensic Analysis Credits: 3
- CHEM 416 - Forensic Analysis Lab Credits: 1
- CHEM 475 - Advanced Organic Synthesis/Lab Credits: 4

Cognate Courses - Credits: 12

- BIOL 104 - Principles of Biology/Lab Credits: 4
- MATH 230 - Calculus II Credits: 4
- PHYS 213 - General Physics III/ Lab Credits: 4

Natural Science and Mathematice College Wide Requirement - Credits: 12

- CHEM 107 - General Chemistry I Credits: 3
- CHEM 111 - General Chemistry I Lab Credits: 1
- MATH 225 - Calculus I Credits: 4
- PHYS 211 - General Physics I/ Lab Credits: 4

Health Sciences Concentration - Credits: 13

- BIOL 216 - Anatomy and Physiology I /Lab Credits: 3
- BIOL 217 - Anatomy and Physiology II/Lab Credits: 3
- BIOL 250 - Genetics/Lab Credits: 4
- BIOL 330 - Microbiology/Lab Credits: 3
- PSYC 105 - Introduction to Psychology Credits: 3
- STAT 152 - Elementary Statistics I Credits: 3

Electives

- CHEM 490 - Independent Study Credits: 1 to 3 (Credits: 2)
(Required for ACS Certification)

Chemistry (BS) - Pre-Physician Assistant SRU 3+2

Major Requirements - Credits: 50

Required Introductory Chemistry Courses - Credits: 4

- CHEM 108 - General Chemistry II Credits: 3
- CHEM 112 - General Chemistry II Lab Credits: 1

Required Foundation Chemistry Courses - Credits: 22

- CHEM 201 - Organic Chemistry I Credits: 3
- CHEM 211 - Organic Chemistry Laboratory I Credits: 1
- CHEM 243 - Introduction to Research in Chemistry Credits: 1
- CHEM 301 - Physical Chemistry I Credits: 3
- CHEM 321 - Physical Chemistry Laboratory I Credits: 1
- CHEM 335 - Biochemistry I Credits: 3
- CHEM 336 - Biochemistry Laboratory I Credits: 1
- CHEM 350 - Analytical Chemistry Credits: 3
- CHEM 351 - Analytical Chemistry Lab Credits: 1
- CHEM 442 - Inorganic Chemistry Credits: 3
- CHEM 452 - Physical Inorganic Chemistry Laboratory Credits: 1
- CHEM 491 - Chemistry Seminar Credits: 1

Required In-Depth Chemistry Courses - Credits: 8

- CHEM 202 - Organic Chemistry II Credits: 3
- CHEM 212 - Organic Chemistry Laboratory II Credits: 1
- CHEM 337 - Biochemistry II Credits: 3
- CHEM 338 - Biochemistry Laboratory II Credits: 1

Additional Required In-Depth Chemistry Courses - Credits: 4

Choose one lecture and one laboratory course.

- CHEM 340 - Air Quality Assessment/Lab Credits: 4
- CHEM 370 - Water Quality Assessment/Lab Credits: 4
- CHEM 415 - Forensic Analysis Credits: 3
- CHEM 416 - Forensic Analysis Lab Credits: 1
- CHEM 425 - Instrumental Analysis Credits: 3
- CHEM 426 - Instrumental Analysis Laboratory Credits: 1
- CHEM 475 - Advanced Organic Synthesis/Lab Credits: 4

Cognate Courses - Credits: 12

- BIOL 104 - Principles of Biology/Lab Credits: 4
- MATH 230 - Calculus II Credits: 4
- PHYS 213 - General Physics III/ Lab Credits: 4

Chemistry (BS) and Optional Concentrations

Chemistry Department

A chemistry major studies the chemical properties of substances in order to develop the ability to make discoveries and to solve the vast array of problems associated with existing technologies. Four programs of study leading to a bachelor of science degree and one leading to a bachelor of arts degree are available. The bachelor of arts program allows students to choose more elective courses in order to link chemistry with some other interest such as marketing/sales or patent law. The bachelor of science programs in biochemistry, environmental chemistry, forensic chemistry and general chemistry prepare students for postgraduate education and careers in industry, government, medicine and education. Students seeking state certification in secondary education must also complete requirements for a Master of Education degree, a one-year program at SRU. All of our programs are designed to steadily develop the quantitative, deductive and inductive reasoning skills that chemists must have.

The science and math course requirements taken during the first two years in our programs are almost identical. Consequently, students do not have to choose a specific specialization until their junior year.

A pharmacy option in the biochemistry program enables students to take advantage of a 3 + 3 affiliation agreement with the Lake Erie College of Osteopathic Medicine's School of Pharmacy. Admission to the three-year pharmacy part of the program is competitive (see Pre-professional Programs).

All of our students are strongly encouraged to do research under the direction of one of our faculty. Three laboratories exist solely for student research, and student/faculty research is supported by modern analytical instrumentation in our spectroscopy and chromatography laboratories.

SRU graduates perform research and development at large corporations and small companies. Others are high school teachers and university professors. Some eventually move into careers in management or sales. Many have completed postgraduate programs in chemistry, engineering, medicine and other science related areas. The chemistry faculty at Slippery Rock University help students develop career goals that match their interests and this is reflected in the wide variety of careers our graduates pursue.

Natural Science & Mathematics College-Wide Requirement - Credits: 12

- CHEM 107 - General Chemistry I Credits: 3
- CHEM 111 - General Chemistry I Lab Credits: 1
- MATH 225 - Calculus I Credits: 4
- PHYS 211 - General Physics I/ Lab Credits: 4

Required Courses for the Chemistry (BS) – Credits: 56

Required Introductory Chemistry Courses - Credits: 4

- CHEM 108 - General Chemistry II Credits: 3
- CHEM 112 - General Chemistry II Lab Credits: 1

Required Foundation Chemistry Courses - Credits: 22

- CHEM 201 - Organic Chemistry I Credits: 3
- CHEM 211 - Organic Chemistry Laboratory I Credits: 1
- CHEM 243 - Introduction to Research in Chemistry Credits: 1
- CHEM 301 - Physical Chemistry 1 Credits: 3
- CHEM 321 - Physical Chemistry Laboratory I Credits: 1
- CHEM 335 - Biochemistry I Credits: 3
- CHEM 336 - Biochemistry Laboratory I Credits: 1
- CHEM 350 - Analytical Chemistry Credits: 3
- CHEM 351 - Analytical Chemistry Lab Credits: 1
- CHEM 442 - Inorganic Chemistry Credits: 3
- CHEM 452 - Physical Inorganic Chemistry Laboratory Credits: 1
- CHEM 491 - Chemistry Seminar Credits: 1

Required In-Depth Chemistry Courses - Credits: 14

- CHEM 202 - Organic Chemistry II Credits: 3
- CHEM 212 - Organic Chemistry Laboratory II Credits: 1
- CHEM 302 - Physical Chemistry II Credits: 3
- CHEM 425 - Instrumental Analysis Credits: 3
- CHEM 426 - Instrumental Analysis Laboratory Credits: 1
- CHEM 460 - Materials Chemistry Credits: 3

Additional In-Depth Chemistry Courses - Credits: 4

Choose one lecture and one laboratory course from below:

- CHEM 337 - Biochemistry II Credits: 3
- CHEM 338 - Biochemistry Laboratory II Credits: 1
- CHEM 340 - Air Quality Assessment/Lab Credits: 4
- CHEM 370 - Water Quality Assessment/Lab Credits: 4
- CHEM 415 - Forensic Analysis Credits: 3
- CHEM 416 - Forensic Analysis Lab Credits: 1

- CHEM 475 - Advanced Organic Synthesis/Lab Credits: 4

Cognate Courses - Credits: 12

- BIOL 104 - Principles of Biology/Lab Credits: 4
- MATH 230 - Calculus II Credits: 4
- PHYS 213 - General Physics III/ Lab Credits: 4

Electives

- 2 credits of CHEM 490 - Independent Study Credits: 1 to 3
(Required for ACS certification)

Optional Biochemistry Concentration - Credits: 15

Students with a biochemistry concentration take additional courses in chemistry and biology focusing on techniques most useful in biochemistry, pharmacy, and medical-related fields. SRU has a 3+3 affiliation with the Lake Erie College of Osteopathic Medicine's School of Pharmacy (LECOM) leading to a B.S. in chemistry with a biochemistry concentration after successful completion of three years at SRU and one year at LECOM. A doctor of pharmacy is earned upon completion of the program at LECOM.

- BIOL 250 - Genetics/Lab Credits: 4
- BIOL 335 - Cell Biology/Lab Credits: 3
- BIOL 370 - Molecular Biology/Lab Credits: 3
- CHEM 337 - Biochemistry II Credits: 3
- CHEM 338 - Biochemistry Laboratory II Credits: 1

Optional Computational Chemistry Concentration - Credits: 26

Advances in genetics and molecular biology, and the impetus of the genome project, has generated a need for using computational sciences to understand biochemical processes. The proposed concentration is to prepare students in the interdisciplinary area of BioInformatics consisting of coursework from biology, computer science, chemistry and mathematics. The concentration in BioInformatics will allow students to either obtain jobs or pursue graduate school in the areas of bioinformatics, cellular and systems biology, genomics and proteomics, molecular structural biology, biochemistry, drug discovery, drug design, protein structure, gene finding and genome assembly to name a few.

- CPSC 146 - Programming Principles Credits: 3
- CPSC 246 - Advanced Programming Principles Credits: 3
- CPSC 374 - Algorithms and Data Structures Credits: 3
- CPSC 480 - Topics in Computer Science: Machine Learning Credits: 3
- STAT 152 - Elementary Statistics I Credits: 3
- MATH 240 - Linear Algebra and Differential Equations Credits: 3
- PHYS 385 - Computational Physics Credits: 3

Optional Environmental Chemistry Concentration - Credits: 16

The environmental concentration includes air and water quality assessment and geochemistry courses that prepare students specifically for analysis of air, water, and soil samples. These courses cover standard concepts and procedures performed by those working for environmental protection agencies and consulting firms.

- CHEM 340 - Air Quality Assessment/Lab Credits: 4
- CHEM 370 - Water Quality Assessment/Lab Credits: 4
- EGEO 451 - Geochemistry/Lab Credits: 4
- GES 115 - Introduction to Geospatial Technologies Credits: 3
- GES 325 - Introduction to Geographic Information Science Credits: 3

Optional Forensic Chemistry Concentration - Credits: 14

The forensics concentration includes a variety of biology courses as well as "Forensics Analysis lecture" and lab which provide theory and hands-on experience for forensic-related careers. Students with this concentration also take "Introduction to Criminology and Criminal Investigations."

- BIOL 250 - Genetics/Lab Credits: 4
- BIOL 370 - Molecular Biology/Lab Credits: 3
- CHEM 415 - Forensic Analysis Credits: 3
- CHEM 416 - Forensic Analysis Lab Credits: 1
- CRIM 110 - Introduction to Criminology and Criminal Justice Systems Credits: 3

Chemistry-Biochemistry - 3+3 Pre Pharmacy (LECOM) Track (BS)

The *Lake Erie College of Osteopathic Medicine* (LECOM) School of Pharmacy and *Slippery Rock University* of Pennsylvania (SLIPPERY ROCK) hereby pledge their commitment to the training of future pharmacy practitioners by joining in this affiliation. SLIPPERY ROCK and LECOM School of Pharmacy will offer an accelerated, six-year Doctor of Pharmacy program. Under the joint agreement between LECOM School of Pharmacy and SLIPPERY ROCK, students will successfully complete the three-year undergraduate program in pre-pharmacy at SLIPPERY ROCK and then matriculate into LECOM School of Pharmacy to complete the professional curriculum of the Doctor of Pharmacy degree (Pharm.D.) in three years. The accelerated professional pharmacy curriculum at LECOM School of Pharmacy will be offered in a rigorous 12-month program per academic year.

SELECTION OF STUDENTS FOR THE PROGRAM

For admission to Phase I of the Program, students must fulfill the following requirements:

- SAT Scores (or ACT scores) 1100 (total of 24); New SAT of 1240 or higher is preferred; ACT of 26 or better.
- High School Grade Point Average (GPA) 3.4 out of 4.0
- Class rank Top 25% of the class
- Letters of recommendation are not required by LECOM to enter into EAP
- Potential Evidence of scholarly activities and desire to become a pharmacist

- LECOM School of Pharmacy will **not** accept advanced placement credit of science and mathematics courses into Phase I of the program.

Admission to Phase II of the Program

The LECOM School of Pharmacy will accept **SLIPPERY ROCK** students into the professional pharmacy curriculum who meet the criteria listed below:

- Complete the pre-pharmacy curriculum in Phase I of the 3 + 3 Accelerated Program in Pharmacy as described below (or as amended).
- Earn a minimum GPA of **3.4** in Phase I of the **Program**. No grade lower than a "C."
- Earn a GPA of **3.2** or higher for science courses.
- Must maintain *full-time* student status while at **SLIPPERY ROCK** and complete the Program in the specified time frame.

Submit two letters of recommendation. One of these letters **MUST** be from the Health Professions Committee at **SLIPPERY ROCK**. The letter will address the personal growth of the student during Phase I of the **Program**, as well as the student's maturity, responsibility, and desire to become a pharmacist.

- Demonstrate leadership potential and commitment to the pharmacy profession.
- Submit a completed application for admission to the LECOM School of Pharmacy.

All questions from students accepted into the 3 + 3 Accelerated Pharmacy Program should be directed to the LECOM School of Pharmacy Admissions Office.

Conferral of Degrees

The Doctor of Pharmacy (Pharm.D.) degree will be conferred upon successful completion of Phase I and Phase II of the **Program**, both didactic and clinical, and **recommendation** by both the administration and faculty of the LECOM School of Pharmacy. Conferral of the Pharm.D. degree will be at the end of the three year professional program in pharmacy at the LECOM School of Pharmacy. The Bachelor of Science (B.S.) degree will be conferred on "3+3" students after completion of all **SLIPPERY ROCK** requirements which includes completion (*with a C or better*) of all courses in the first semester of year one at LECOM.

Basic Required Courses

Students must earn a grade of C or better in each of the following 3 Chemistry courses.

- CHEM 107 - General Chemistry I Credits: 3
- CHEM 108 - General Chemistry II Credits: 3
- CHEM 201 - Organic Chemistry I Credits: 3

Required Chemistry Courses

- CHEM 111 - General Chemistry I Lab Credits: 1
- CHEM 112 - General Chemistry II Lab Credits: 1
- CHEM 202 - Organic Chemistry II Credits: 3
- CHEM 211 - Organic Chemistry Laboratory I Credits: 1
- CHEM 212 - Organic Chemistry Laboratory II Credits: 1
- CHEM 301 - Physical Chemistry I Credits: 3
- CHEM 321 - Physical Chemistry Laboratory I Credits: 1

- CHEM 335 - Biochemistry I Credits: 3
- CHEM 336 - Biochemistry Laboratory I Credits: 1
- CHEM 337 - Biochemistry II Credits: 3
- CHEM 338 - Biochemistry Laboratory II Credits: 1
- CHEM 350 - Analytical Chemistry Credits: 3
- CHEM 351 - Analytical Chemistry Lab Credits: 1
- CHEM 425 - Instrumental Analysis Credits: 3
- CHEM 426 - Instrumental Analysis Laboratory Credits: 1

Required Math and Science Courses

- BIOL 104 - Principles of Biology/Lab Credits: 4
- BIOL 250 - Genetics/Lab Credits: 4
- STAT 152 - Elementary Statistics I Credits: 3
- MATH 230 - Calculus II Credits: 4
- PHYS 213 - General Physics III/ Lab Credits: 4

Liberal Studies Requirements

Students should work closely with an academic adviser to complete additional Liberal Studies requirements to equal 45-48 credits.

Minor in Chemistry

Chemistry Minor Requirements - Credits: 24

Required Chemistry Courses - Credits: 12

- CHEM 107 - General Chemistry I Credits: 3
- CHEM 108 - General Chemistry II Credits: 3
- CHEM 111 - General Chemistry I Lab Credits: 1
- CHEM 112 - General Chemistry II Lab Credits: 1
- CHEM 201 - Organic Chemistry I Credits: 3
- CHEM 211 - Organic Chemistry Laboratory I Credits: 1

Additional Courses - Credits: 4

Choose 4 credits from the following:

- CHEM 202 - Organic Chemistry II Credits: 3
- CHEM 212 - Organic Chemistry Laboratory II Credits: 1
- CHEM 350 - Analytical Chemistry Credits: 3
- CHEM 351 - Analytical Chemistry Lab Credits: 1

Additional Courses - Credits: 4

Choose 4 credits from the following:

- CHEM 301 - Physical Chemistry 1 Credits: 3
- CHEM 321 - Physical Chemistry Laboratory I Credits: 1
- CHEM 335 - Biochemistry I Credits: 3
- CHEM 336 - Biochemistry Laboratory I Credits: 1
- CHEM 340 - Air Quality Assessment/Lab Credits: 4
- CHEM 370 - Water Quality Assessment/Lab Credits: 4

Additional Courses - Credits: 4

Choose 4 credits from the following:

- CHEM 302 - Physical Chemistry II Credits: 3
- CHEM 337 - Biochemistry II Credits: 3
- CHEM 338 - Biochemistry Laboratory II Credits: 1
- CHEM 415 - Forensic Analysis Credits: 3
- CHEM 416 - Forensic Analysis Lab Credits: 1
- CHEM 425 - Instrumental Analysis Credits: 3
- CHEM 426 - Instrumental Analysis Laboratory Credits: 1
- CHEM 442 - Inorganic Chemistry Credits: 3
- CHEM 452 - Physical Inorganic Chemistry Laboratory Credits: 1
- CHEM 460 - Materials Chemistry Credits: 3
- CHEM 475 - Advanced Organic Synthesis/Lab Credits: 4
- CHEM 490 - Independent Study Credits: 1 to 3

Pharmacy - Chemistry

Chemistry Department

A 3+3 affiliation agreement with the Lake Erie College of Medicine's School of Pharmacy (LECOM) would give the students in SRU's Biochemistry program a pharmacy option. Students selecting this option would receive a B.S. degree in Chemistry (Biochemistry Concentration) after completing the first year of a 3-year doctoral program at LECOM. Twenty-seven credits, including 9 in chemistry, 4 in biology, and 6 in liberal studies, would be transferred from LECOM to SRU at that time.

- Students applying for Phase II of the Program must also complete an on-line PharmCAS Application by October 15th of the year of matriculation.
- **LECOM School of Pharmacy will accept advanced placement credit for prerequisite courses. However a class of equal rigor should be taken at the affiliated college.**
- LECOM School of Pharmacy will not accept credit given for CLEP courses.
- **Students who have taken Phase I courses in high school must supplement each course with an additional, higher level course in the same discipline.**
- LECOM School of Pharmacy will only accept applications from U.S. citizens and permanent residents.
- The student must be enrolled full-time at the undergraduate institution and complete the program in the time-frame specified in the agreement.
- Students must fulfill all Phase I entrance requirements as specified in the agreement.

- For the students in the 2+3 agreement, all Phase I courses must be taken during a student's four consecutive semesters at the affiliate institution.
- We do permit the student to take summer courses provided that it does not lessen the workload from the Fall or Spring terms.
- Students are permitted to repeat courses although it is extremely difficult to have the time to repeat courses in the 2+3 pathway.
- **Students must demonstrate that they can handle a full course load. Therefore, the student should not withdraw from any Phase I course which would result in the reduction of their course load.**
- **If applying through the agreement, the LECOM School of Pharmacy is the student's first choice. If the student is accepted into the LECOM program, the student should not accept an offer from another institution.**
- **Any Phase I course cannot be taken pass/fail.**
- **All questions from students accepted into the agreement should be directed to the institutions pre-pharmacy advisor.**

For admission to Phase I of the Program, students must fulfill the following requirements:

1. SAT scores (or ACT scores) - 1170 (total of 26)
2. High School Grade Point Average - 3.5 or better out of 4.0
3. Candidate potential - Evidence of scholarly activities and desire to become a pharmacist

For admission to Phase II of the Program, students must fulfill the following requirements:

1. Complete the pre-pharmacy curriculum in Phase I of the "3+3" Accelerated Pharmacy Program, as described below.
2. Earn a minimum GPA of 3.4 in Phase I of the program with no individual grade lower than a "C".
3. Earn a GPA of 3.4 or higher for science and mathematics courses.
4. Submit two letters of recommendation. One of these letters must be from the Health Professions Committee at SRU. The letter will address personal growth of the student during Phase I of the program, as well as the student's maturity, responsibility, and desire to become a pharmacist.
5. Demonstrates leadership potential and commitment to the pharmacy profession.
6. Submit a completed application for admission to the LECOM School of Pharmacy.

All courses from LECOM transfer to the B.S. Chemistry program – Biochemistry/Pharmacy option. Four LECOM courses replace four SRU courses from our current Biochemistry program. The SRU courses are Microbiology (Biol 330), Cell Biology (Biol 335), Molecular Biology (Biol 370) and either Analytical Chemistry (Chem 350, 351) or Instrumental Analysis (Chem 425, 426).

Required courses at SRU:

Biology Courses - Credits: 8

- BIOL 104 - Principles of Biology/Lab Credits: 4
- BIOL 250 - Genetics/Lab Credits: 4

Chemistry Courses - Credits: 28

- CHEM 107 - General Chemistry I Credits: 3
- CHEM 108 - General Chemistry II Credits: 3
- CHEM 111 - General Chemistry I Lab Credits: 1
- CHEM 112 - General Chemistry II Lab Credits: 1
- CHEM 201 - Organic Chemistry I Credits: 3
- CHEM 202 - Organic Chemistry II Credits: 3

- CHEM 211 - Organic Chemistry Laboratory I Credits: 1
- CHEM 212 - Organic Chemistry Laboratory II Credits: 1
- CHEM 321 - Physical Chemistry Laboratory I Credits: 1
- CHEM 335 - Biochemistry I Credits: 3
- CHEM 336 - Biochemistry Laboratory I Credits: 1
- CHEM 337 - Biochemistry II Credits: 3
- CHEM 338 - Biochemistry Laboratory II Credits: 1

Chemistry Electives - Credits: 4

- CHEM 350 - Analytical Chemistry Credits: 3
- CHEM 351 - Analytical Chemistry Lab Credits: 1
- CHEM 425 - Instrumental Analysis Credits: 3
- CHEM 426 - Instrumental Analysis Laboratory Credits: 1

Mathematics Courses - Credits: 11

- STAT 152 - Elementary Statistics I Credits: 3
- MATH 225 - Calculus I Credits: 4
- MATH 230 - Calculus II Credits: 4

Physics Courses - Credits: 7

- PHYS 211 - General Physics I/ Lab Credits: 4
- PHYS 213 - General Physics III/ Lab Credits: 4

Teacher Certification in Chemistry

Requirements for the Certification

Teacher certification is earned through the master of education degree at Slippery Rock University. Students seeking secondary school teaching certification in chemistry must earn a bachelor of arts or a bachelor of science degree in chemistry and contact the Department of Secondary Education/Foundations of Education concerning its graduate program in education. Information about this program, including prerequisites for admission, may be obtained from the secondary education/foundations of education office in 114 McKay Education Building.

Computer Science

Computer Science Department

Office: 275 Advanced Technology and Science Hall
Phone: 724-738-2040

Chair

Deborah Whitfield

Assistant Chairperson

Hongbo Zhou

Secretary

Vicki Sparano

Faculty

Read Seetan, Nitin Sukhija, Sam Thangiah, Abdullah Whabeh, Hongbo Zhou

The mission of the Department of Computer Science is to provide a broad based coverage of the intensive curriculum to prepare its majors for careers in a technical setting, and to provide thorough instruction for students aiming to pursue graduate studies in the computing disciplines.

The Department will actively support the University and the College's efforts to achieve the institution's various goals of providing broad based education, fulfilling its commitments to the community it serves, engaging in multidimensional evaluations and assessments, and ensuring the institution's continued vitality.

The Department will accomplish its mission in an environment that will promote close and lasting relationships among students and faculty.

The Department of Computer Science offers majors and minors with four concentrations. Each concentration prepares the student for challenging careers in computing. Moreover, each major is flexible enough to allow a wide selection of other courses from the Department of Computer Science or other departments within the University. With proper planning and selection of appropriate minor or individual courses the student majoring in any one of the three programs will be able to meet his/her academic goal in four years.

Computing (BS) - Computer Science Concentration (and Optional Bioinformatics Concentration)

Computer Science Department

The Computer Science Concentration is the science of computing which deals with the theoretical and algorithmic foundations of computation. Students take an extensive core of computer science courses, as well as classes in mathematics. Traditionally, computer scientists work in designing and implementing software, devising new ways to use computers, and developing effective ways to solve computing problems. Growth in computer and communication technologies and their applications has been vigorous, resulting in a wide range of computer-related skills needed by business, industry and government. Today computer science graduates can find jobs as systems and application programmers, systems analysts/managers, network specialists, database experts, customer support personnel, technical writers and independent consultants to name a few.

Graduation requirements for all students pursuing the bachelor of science degree with the major of Computing: Computer Science include a minimum of 2.000 quality point average in courses taken at Slippery Rock University that will fulfill the major requirements stated below under Required Courses and Required Electives, and a minimum 2.000 quality point average in all coursework completed at the university.

For transfer students to earn the bachelor of science degree with a major in Computing: Computer Science, the required coursework must include a minimum of four computer science courses (12 credits), at least two of which must be numbered 400 or above, completed at Slippery Rock University.

Requirements for the Major - Credits: 54

Required Core Courses - Credits: 27

- CPSC 130 - Introduction to Computing and Programming Credits: 3
- CPSC 146 - Programming Principles Credits: 3
- CPSC 207 - Shell Commands and Scripting Credits: 3
- CPSC 300 - Challenges of Computer Technology Credits: 3
or
- MIS 300 - Challenges of Computer Technology Credits: 3
- CPSC 311 - Discrete Computational Structures Credits: 3
- CPSC 323 - Fundamentals of Database Systems Credits: 3
- CPSC 327 - Administration and Security Credits: 3
- CPSC 423 - Computer Networks Credits: 3
- STAT 152 - Elementary Statistics I Credits: 3

Required Computer Science Concentration Courses - Credits: 18

- CPSC 246 - Advanced Programming Principles Credits: 3
- CPSC 370 - Computer Organization and Architecture Credits: 3
- CPSC 374 - Algorithms and Data Structures Credits: 3
- CPSC 376 - Programming Language and Theory Credits: 3
- CPSC 474 - Advanced Architecture & Parallel Computing Credits: 3
- CPSC 488 - Software Engineering Credits: 3

Computer Science Concentration Electives - Credits: 9

Choose one course from the following - Credits: 3

- CPSC 215 - Cross-Platform Mobile App Credits: 3
- CPSC 217 - Structured and Dynamic Web Programming Credits: 3
- CPSC 236 - Selected Computer Languages Credits: 3
- CPSC 315 - Computer Gadget Project Credits: 3

Choose one course from the following - Credits: 3

- CPSC 405 - Data Mining and Data Analysis Credits: 3
- CPSC 476 - Artificial Intelligence Credits: 3

Choose one course from the following - Credits: 3

- CPSC 406 - Data Visualization Credits: 3

- CPSC 450 - Internship Credits: 1 to 12 This will be a 3 credit internship
- CPSC 456 - Introduction to Computer Graphics Credits: 3
- CPSC 478 - Analysis of Algorithms Credits: 3
- CPSC 480 - Topics in Computer Science: Machine Learning Credits: 3
- CPSC 485 - Big Data Analytics Credits: 3

Concentration in Bioinformatics (optional) - Computer Science - Credits: 18

Advances in genetics and molecular biology, and the impetus of the genome project, has generated a need for using computational sciences to understand biochemical processes. The proposed concentration is to prepare students in the interdisciplinary area of Bioinformatics consisting of coursework from biology, computer science, chemistry and mathematics. The concentration in Bioinformatics will allow students to either obtain jobs or pursue graduate school in the areas of bioinformatics, cellular and systems biology, genomics and proteomics, molecular structural biology, biochemistry, drug discovery, drug design, protein structure, gene finding and genome assembly to name a few.

- CHEM 201 - Organic Chemistry I Credits: 3
 - BIOL 325 - Biometry / Lab Credits: 3
 - BIOL 335 - Cell Biology/Lab Credits: 3
 - BIOL 370 - Molecular Biology/Lab Credits: 3
 - CPSC 342 - Introduction to Bioinformatics Credits: 3
 - CPSC 415 - Advanced Bioinformatics Credits: 3
- Note:** Bioinformatics students must complete these courses as part of their liberal studies requirements. Please see the department curriculum guide for more detailed information.
- (BIOL 104 or BIOL 101) and BIOL 100
 - BIOL 250

Computing (BS) - Computing Analytics Concentration

Major Requirements - Credits: 54

Required Courses - Credits: 27

- CPSC 130 - Introduction to Computing and Programming Credits: 3
 - CPSC 146 - Programming Principles Credits: 3
 - CPSC 207 - Shell Commands and Scripting Credits: 3
 - CPSC 300 - Challenges of Computer Technology Credits: 3
- OR
- MIS 300 - Challenges of Computer Technology Credits: 3
 - CPSC 311 - Discrete Computational Structures Credits: 3
 - CPSC 323 - Fundamentals of Database Systems Credits: 3
 - CPSC 327 - Administration and Security Credits: 3
 - CPSC 423 - Computer Networks Credits: 3
 - STAT 152 - Elementary Statistics I Credits: 3

Computing Analytics Core Courses - Credits: 21

- CPSC 246 - Advanced Programming Principles Credits: 3
- CPSC 370 - Computer Organization and Architecture Credits: 3
- CPSC 374 - Algorithms and Data Structures Credits: 3
- CPSC 405 - Data Mining and Data Analysis Credits: 3
- CPSC 474 - Advanced Architecture & Parallel Computing Credits: 3
- CPSC 480 - Topics in Computer Science: Machine Learning Credits: 3
- CPSC 485 - Big Data Analytics Credits: 3

Computer Science Electives - Credits: 6

Choose two courses from the following:

- CPSC 406 - Data Visualization Credits: 3
- CPSC 450 - Internship Credits: 1 to 12
- CPSC 456 - Introduction to Computer Graphics Credits: 3
- CPSC 476 - Artificial Intelligence Credits: 3
- CPSC 478 - Analysis of Algorithms Credits: 3
- MATH 225 - Calculus I Credits: 4
- STAT 153 - Elementary Statistics II Credits: 3

Computing (BS) - Cybersecurity Concentration

The Bachelor of Science in Computing with a Cybersecurity concentration is designed to prepare students for a career in information security area (e.g., information security officer, computer forensic expert, information assurance analyst, network security engineer).

Computing (BS) - Cybersecurity Concentration - Credits: 54

Required Core Courses - Credits: 27

- CPSC 130 - Introduction to Computing and Programming Credits: 3
- CPSC 146 - Programming Principles Credits: 3
- CPSC 207 - Shell Commands and Scripting Credits: 3
- CPSC 300 - Challenges of Computer Technology Credits: 3
- OR
- MIS 300 - Challenges of Computer Technology Credits: 3
- CPSC 311 - Discrete Computational Structures Credits: 3
- CPSC 323 - Fundamentals of Database Systems Credits: 3
- CPSC 327 - Administration and Security Credits: 3
- CPSC 423 - Computer Networks Credits: 3
- STAT 152 - Elementary Statistics I Credits: 3

Cybersecurity Concentration - Credits: 27

Required Courses - Credits: 21

- CSS 120 - Introduction to Private Security Credits: 3
- CPSC 217 - Structured and Dynamic Web Programming Credits: 3
OR
- CPSC 246 - Advanced Programming Principles Credits: 3
- CSS 240 - Security Management Credits: 3
- CPSC 301 - Practical Computer Security Credits: 3
OR
- MIS 301 - Practical Computer Security Credits: 3
- CPSC 333 - Introduction to Computer Forensics Credits: 3
OR
- MIS 333 - Introduction to Computer Forensics Credits: 3
- MIS 401 - Information Systems Security Credits: 3
- MIS 443 - Project Management Credits: 3

Cybersecurity Concentration Electives - Credits: 6

- CSS 320 - Security Risk and Emergency Mgmt Credits: 3
- CSS 351 - Fraud Credits: 3
- CSS 354 - Risk Assessment and Fraud Credits: 3
- CPSC 450 - Internship Credits: 1 to 12 Credits: 3

Computing (BS) - Information Technology Concentration

Computer Science Department

The Information Technology concentration provides students with an opportunity to examine information gathering, retrieval, management, and storage capabilities with respect to information technology. The concentration also provides students with tools and techniques needed for creating and maintaining highly interactive computer systems while strengthening the student's problem solving and critical thinking abilities. The scope of the concentration includes decision making, social and ethical professionalism, information management, incorporation of audio and video into software applications, computer networking, and system administration. Graduates of this concentration will possess technical abilities to maintain computing systems that are used not only by programmers and database managers, but also remotely by employees and often customers.

Graduation requirements for all students pursuing the bachelor of science degree with the major of Computing: Information Technology include a minimum of 2.000 quality point average in courses taken at Slippery Rock University that will fulfill the major requirements stated below under Required Courses and Required Electives, and a minimum 2.000 quality point average in all coursework completed at the university.

For transfer students to earn the bachelor of science degree with a major in Computing: Information Technology, the required coursework must include a minimum of four computer science courses (12 credits), at least two of which must be numbered 400 or above, completed at Slippery Rock University.

Requirements for the Major - Credits: 54

Required Core Courses - Credits: 27

- CPSC 130 - Introduction to Computing and Programming Credits: 3
- CPSC 146 - Programming Principles Credits: 3
- CPSC 207 - Shell Commands and Scripting Credits: 3
- CPSC 300 - Challenges of Computer Technology Credits: 3
or
- MIS 300 - Challenges of Computer Technology Credits: 3
- CPSC 311 - Discrete Computational Structures Credits: 3
- CPSC 323 - Fundamentals of Database Systems Credits: 3
- CPSC 327 - Administration and Security Credits: 3
- CPSC 423 - Computer Networks Credits: 3
- STAT 152 - Elementary Statistics I Credits: 3

Required Information Technology Concentration courses: Credits 15

- CPSC 217 - Structured and Dynamic Web Programming Credits: 3
- CPSC 317 - Scripting Languages Credits: 3
- CPSC 337 - Introduction to Web Graphics Credits: 3
- CPSC 427 - Interface Design Credits: 3
- ART 114 - Basic Studio Digital Media Credits: 3

Information Technology Concentration Electives - Credits: 6

Select 2 courses in sequence from one of the following areas:

Art:

- ART 214 - Intermediate Studio Digital Media Credits: 3
- ART 314 - Advanced Studio Digital Media Credits: 3

Management:

- MGMT 351 - Organizational Behavior Credits: 3
Any MGMT course numbered 300 or above

Marketing:

- MRKT 330 - Principles of Marketing Credits: 3
Any MKTG course numbered 300 or above and

Information Technology Concentration Electives - Credits: 6

Choose two courses (one course must be 300 level or above). Credits cannot be from courses already used above

- CPSC 125 - 3D Modeling for Computing Credits: 3
- CPSC 215 - Cross-Platform Mobile App Credits: 3
- CPSC 236 - Selected Computer Languages Credits: 3
- CPSC 246 - Advanced Programming Principles Credits: 3

- CPSC 301 - Practical Computer Security Credits: 3
OR
- MIS 301 - Practical Computer Security Credits: 3
- CPSC 315 - Computer Gadget Project Credits: 3
- CPSC 333 - Introduction to Computer Forensics Credits: 3
OR
- MIS 333 - Introduction to Computer Forensics Credits: 3
- CPSC 405 - Data Mining and Data Analysis Credits: 3
- CPSC 406 - Data Visualization Credits: 3
- CPSC 417 - Advanced Web Technologies Credits: 3
- CPSC 450 - Internship Credits: 1 to 12 Credits: 3
- MIS 443 - Project Management Credits: 3

Cybersecurity (BS) - Concentration in Secure Software Development

Major/Concentration Requirements - Credits: 60

Required Core Courses - Credits: 30

- CPSC 130 - Introduction to Computing and Programming Credits: 3
- CPSC 146 - Programming Principles Credits: 3
- CPSC 207 - Shell Commands and Scripting Credits: 3
- CPSC 300 - Challenges of Computer Technology Credits: 3
OR
- MIS 300 - Challenges of Computer Technology Credits: 3
- CPSC 301 - Practical Computer Security Credits: 3
- CPSC 311 - Discrete Computational Structures Credits: 3
- CPSC 323 - Fundamentals of Database Systems Credits: 3
- CPSC 327 - Administration and Security Credits: 3
- CPSC 423 - Computer Networks Credits: 3
- CYBR 101 - Cybersecurity in the Era of Evolving Technology Credits: 3

Secure Software Development Required Courses - Credits: 24

- CPSC 246 - Advanced Programming Principles Credits: 3
- CPSC 374 - Algorithms and Data Structures Credits: 3
- CPSC 376 - Programming Language and Theory Credits: 3
- CPSC 488 - Software Engineering Credits: 3
- CYBR 301 - Secure Programming Credits: 3
- CYBR 353 - Software Assurance Credits: 3
- CYBR 401 - Software Security Analysis Credits: 3
- CYBR 471 - Malware Analysis Credits: 3

Secure Software Development Electives - Credits: 6

Choose two courses from the following:

- CPSC 333 - Introduction to Computer Forensics Credits: 3
OR
- MIS 333 - Introduction to Computer Forensics Credits: 3
- CPSC 370 - Computer Organization and Architecture Credits: 3
- CPSC 450 - Internship Credits: 1 to 12
- CPSC 474 - Advanced Architecture & Parallel Computing Credits: 3
- CPSC 478 - Analysis of Algorithms Credits: 3

Cybersecurity (BS) - Concentration in Security Governance

Major/Concentration Requirements - Credits: 60

Required Core Courses - Credits: 30

- CPSC 130 - Introduction to Computing and Programming Credits: 3
- CPSC 146 - Programming Principles Credits: 3
- CPSC 207 - Shell Commands and Scripting Credits: 3
- CPSC 300 - Challenges of Computer Technology Credits: 3
OR
- MIS 300 - Challenges of Computer Technology Credits: 3
- CPSC 301 - Practical Computer Security Credits: 3
- CPSC 311 - Discrete Computational Structures Credits: 3
- CPSC 323 - Fundamentals of Database Systems Credits: 3
- CPSC 327 - Administration and Security Credits: 3
- CPSC 423 - Computer Networks Credits: 3
- CYBR 101 - Cybersecurity in the Era of Evolving Technology Credits: 3

Security Governance Required Courses - Credits: 24

- CPSC 102 - Collaborative Information Technology and Society Credits: 3
- CPSC 215 - Cross-Platform Mobile App Credits: 3
- CPSC 217 - Structured and Dynamic Web Programming Credits: 3
OR
- CPSC 246 - Advanced Programming Principles Credits: 3
- CPSC 333 - Introduction to Computer Forensics Credits: 3
OR
- MIS 333 - Introduction to Computer Forensics Credits: 3
- CSS 120 - Introduction to Private Security Credits: 3
- CSS 240 - Security Management Credits: 3
- MIS 401 - Information Systems Security Credits: 3
- MIS 443 - Project Management Credits: 3

Security Governance Electives - Credits: 6

- CPSC 450 - Internship Credits: 1 to 12
- CSS 320 - Security Risk and Emergency Mgmt Credits: 3
- CSS 351 - Fraud Credits: 3
- CSS 354 - Risk Assessment and Fraud Credits: 3

Minor in Computing

Computer Science Department

Minor in Computing requires a minimum 2.000 quality point average in the courses completed at Slippery Rock University to fulfill course requirements of the minor.

A minimum of six credits must be upper division (numbered 300 or above).

For transfer students to earn a minor in computing, the required course work for the minor must include a minimum of four courses (12 credits) completed at Slippery Rock University. Of these four courses at least two must be in computer science one of which must be at 300-level or higher.

Requirements for the Minor in Computing - Credits: 24

Core Requirements - Credits: 15

- CPSC 130 - Introduction to Computing and Programming Credits: 3
- CPSC 146 - Programming Principles Credits: 3
- CPSC 207 - Shell Commands and Scripting Credits: 3
- CPSC 300 - Challenges of Computer Technology Credits: 3
- OR
- MIS 300 - Challenges of Computer Technology Credits: 3
- CPSC 323 - Fundamentals of Database Systems Credits: 3
- OR
- MIS 323 - Database Systems Credits: 3

Two Courses - Credits: 6

- CPSC 215 - Cross-Platform Mobile App Credits: 3
- CPSC 217 - Structured and Dynamic Web Programming Credits: 3
- CPSC 246 - Advanced Programming Principles Credits: 3
- CPSC 315 - Computer Gadget Project Credits: 3

Choose one of the following courses: Credits 3

- ART 214 - Intermediate Studio Digital Media Credits: 3
- COMM 201 - Digital Imaging 1 Credits: 3
- COMM 248 - Interactive Multimedia 1 Credits: 3
- COMM 254 - Video Production Credits: 3
- COMM 258 - Interactive Multimedia 2 Credits: 3

- COMM 350 - Editing for Video Credits: 3
- COMM 359 - Interactive Multimedia 3 Credits: 3
- CPSC 317 - Scripting Languages Credits: 3
- CPSC 327 - Administration and Security Credits: 3
- CPSC 333 - Introduction to Computer Forensics Credits: 3
OR
- MIS 333 - Introduction to Computer Forensics Credits: 3
- CPSC 337 - Introduction to Web Graphics Credits: 3
- CPSC 370 - Computer Organization and Architecture Credits: 3
- CPSC 374 - Algorithms and Data Structures Credits: 3
- CPSC 376 - Programming Language and Theory Credits: 3
- CPSC 405 - Data Mining and Data Analysis Credits: 3
- CPSC 406 - Data Visualization Credits: 3
- CPSC 417 - Advanced Web Technologies Credits: 3
- CPSC 423 - Computer Networks Credits: 3
- CPSC 427 - Interface Design Credits: 3
- CPSC 450 - Internship Credits: 1 to 12 Credits: 3
- CPSC 456 - Introduction to Computer Graphics Credits: 3
- CPSC 464 - Principles of Concurrent Programming and Operating Systems Credits: 3
- CPSC 476 - Artificial Intelligence Credits: 3
- CPSC 480 - Topics in Computer Science: Machine Learning Credits: 3
- CPSC 488 - Software Engineering Credits: 3
- ECON 219 - Business Statistics Credits: 3
- STAT 152 - Elementary Statistics I Credits: 3
OR
- MGMT 219 - Business Statistics Credits: 3
- MGMT 351 - Organizational Behavior Credits: 3
- MRKT 330 - Principles of Marketing Credits: 3

Minor in Cybersecurity

Minor in Cybersecurity - Credits: 21

Core Requirements - Credits: 21

- CPSC 130 - Introduction to Computing and Programming Credits: 3
- CPSC 300 - Challenges of Computer Technology Credits: 3
OR
- MIS 300 - Challenges of Computer Technology Credits: 3
- CPSC 301 - Practical Computer Security Credits: 3
OR
- MIS 301 - Practical Computer Security Credits: 3
- CPSC 323 - Fundamentals of Database Systems Credits: 3
OR
- MIS 323 - Database Systems Credits: 3
- CPSC 333 - Introduction to Computer Forensics Credits: 3
OR

- MIS 333 - Introduction to Computer Forensics Credits: 3
OR
- MIS 401 - Information Systems Security Credits: 3
- CSS 120 - Introduction to Private Security Credits: 3
- CSS 240 - Security Management Credits: 3
OR
- CSS 351 - Fraud Credits: 3

Exercise and Rehabilitative Sciences

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Exercise and Rehabilitative Sciences

Chair

Patricia Pierce

Secretary

Connie Schmidt

Faculty

Jonathan Anning, Jeremy Dicus, Benajmin Gordon, Michael Holmstrup, Brock Jensen, Kimberly Keeley, Beth Larouere, Jeffrey Lynn, Patricia Pierce, Amy Rickman, Marketa Schublova, Allan Shook, Bonnie Siple, Joyan Urda, Steven Verba, Jacqueline Williams

The Department of Exercise and Rehabilitative Sciences houses two well-established and accredited undergraduate programs, athletic training* and exercise science.

*In tandem with national changes, SRU is transitioning the undergraduate Athletic Training BS program to a Master of Science degree. As a result, SRU is no longer accepting undergraduate students into the Athletic Training BS program. The SRU Class of 2020 will be the last cohort to graduate from the Bachelor of Science in Athletic Training degree.

Athletic Training (BS)

Exercise and Rehabilitative Sciences

* In tandem with national changes, SRU is transitioning the undergraduate Athletic Training BS program to a Master of Science degree. As a result, SRU is no longer accepting undergraduate students into the Athletic Training BS program. The SRU Class of 2020 will be the last cohort to graduate from the Bachelor of Science in Athletic Training degree.

The Athletic Training Program (ATP) prepares selected undergraduate students with the knowledge, skills, and abilities to provide care to athletes and the physically active within the five domains of athletic training practice. The Slippery Rock University Athletic Education Program is accredited by the Commission on Accreditation of Athletic Training Education (CAATE). Students fulfilling the total 120 credit hours of academic program requirements will graduate with a bachelor of science degree and a major in athletic training.

SRU sponsors a unique accelerated ATP that allows athletic training students to graduate in December of their senior (fourth) year. This is accomplished with a highly structured curriculum that is sequenced over three and a half (3.5)

years or seven (7) semesters. This "accelerated" program allows SRU's athletic training students to graduate a semester early, sit for the Board of Certification (BOC) credentialing examination before their peers at other universities and be more competitive for graduate assistantships, employment and seats in other medical preparation programs. Students can also complete the program in the traditional four (4) years by completing necessary liberal studies and electives during the last semester.

Upon formal acceptance into the professional strand of the ATP, students will matriculate through the program according to the curricular sequence. Students must acquire and maintain athletic training student liability insurance and professional rescuer level first aid and CPR/AED certifications and are to be maintained throughout all clinical rotations. These are acquired in advance of enrollment in the clinical experience course, taken five consecutive semesters. Instead of finishing all coursework and then completing an internship, the athletic training student participates in his or her clinical experience under the direct supervision of a preceptor (certified athletic trainer or other medical professional) while taking the relevant coursework. Thus, there is immediate opportunity for application of theory to practice. Although most of the clinical experience takes place on-campus with SRU's certified athletic trainers and varsity athletic teams, all athletic training students are required to spend at least one rotation off-campus with one of our approved clinical instructors at an affiliate site. Athletic training students also are required to complete a general medicine rotation. Athletic training students are required to provide their own transportation to and from the off-campus affiliate sites.

Athletic training students are active, dues-paying members of the SRU Athletic Training Association, National Athletic Trainers' Association (NATA), Eastern Athletic Trainers' Association (EATA), and Pennsylvania Athletic Trainers' Society (PATS). They often attend the annual conferences of those professional organizations and participate in various field trips, surgical observations, and physicians' clinics. Many athletic training students have pursued external internships with the assistance of the faculty. Some of these include internships with the Pittsburgh Steelers, Pittsburgh Pirates, Chicago Cubs, Atlanta Falcons, and the Wide World of Sports Complex at Disney World in Orlando, FL. Rock athletic training students are some of the most successful students in being awarded NATA and EATA sponsored scholarships.

Student-athletes participating in varsity sports sponsored by the SRU Athletic Department who are granted admission to the ATP should make the program coordinator aware of their active participation in their respective sport. Although the ATP faculty work very hard with the coaching staff to support student-athletes in their attempt to participate in varsity athletics while matriculating through the ATP, success is dependent upon each student's ability to manage their time effectively while maintaining required standards of academic performance in the didactic (classroom) and clinical education portions of the ATP. Because all sports are different and all sport seasons vary in time and intensity, not all student-athletes will progress through the ATP the same way. In order to meet the minimum standards of completion of the ATP, student-athletes may be required to enroll one additional semester (4 years or 8 semesters total) or more to guarantee that a quality educational and clinical experience has been achieved and that all competencies and proficiencies have been successfully mastered.

Additional costs related to the Athletic Training Program*

- \$40.00 Required/Approved Uniforms (minimum of one uniform shirt)
- \$85.00 NATA Membership Annual Dues (includes NATA, EATA & PATS or other state association)
- \$10.00 SRU Athletic Trainers' Association Annual Dues
- \$35.00 Athletic Training Student Liability Insurance, Annual Fee (needed each year)
- \$100.00 PA Criminal Background Check (Act 34), PA Child Abuse History Clearance (Act 151), PA Department of Education or Department of Human Services FBI Federal Criminal History Record (Act 114) [depending on affiliate site assignment], PA Child Abuse Recognition and Report Act (Act 126) [depending on affiliate site assignment]
- Inoculations current with OSHA requirements for healthcare providers
- Others as required by affiliate sites
- \$100.00 Minimum for Transportation to off-campus clinical rotation (Cost dependent on location of assignment [range of 3 to 30 miles from SRU], cost of gas during specific off-campus assignment, and opportunities to car pool.

*All costs are subject to change.

Policy for Application to the Athletic Training Program

University acceptance to pursue the athletic training major does NOT guarantee admission into the professional strand of the ATP.

Technical Standards for the SRU Athletic Training Program

The ATP at Slippery Rock University is a rigorous and intense program that places specific requirements and demands on the students enrolled in the program. An objective of this program is to prepare graduates to enter a variety of employment settings and to render care to a wide spectrum of individuals engaged in physical activity. The technical standards set forth by the ATP establish the essential qualities considered necessary for students admitted to this program to achieve the knowledge, skills, and competencies of an entry-level athletic trainer, as well as meet the expectations of the program's accrediting agency (CAATE). All students must meet the following abilities and expectations. In the event a student is unable to fulfill these technical standards the student will not be admitted to the program.

Compliance with the programs technical standards does not guarantee a student's eligibility for the BOC credentialing examination.

Candidates for selection to the Athletic Training Program must demonstrate:

1. The mental capacity to assimilate, analyze, synthesize, integrate concepts and problem solve to formulate assessment and therapeutic judgments and to be able to distinguish deviations from the norm.
2. Sufficient postural and neuromuscular control, sensory function, and coordination to perform appropriate physical examination using accepted techniques; and accurately, safely and efficiently use equipment and materials during assessments and the treatment of patients.
3. The ability to communicate effectively and sensitively with patients and colleagues, including individuals from different cultural and social backgrounds; this includes, but is not limited to, the ability to establish rapport with patients and communicate judgments and treatment information effectively. Students must be able to understand and speak with English language at a level consistent with competent professional practice.
4. The ability to record the physical examination results and treatment plan clearly and accurately.
5. The capacity to maintain composure and continue to function well during periods of high stress.
6. The perseverance, diligence and commitment to complete the Athletic Training Program as outlined and sequenced.
7. Flexibility and the ability to adjust to changing situations and uncertainty in clinical situations.
8. Affective skills and appropriate demeanor and rapport that relate to professional education and quality patient care.

Candidates for selection to the professional strand of the ATP will be required to verify that they understand and meet these technical standards. Candidates must also verify that they have received all OSHA required immunizations before matriculating through the professional strand of the ATP. All athletic training students are required to have a physical examination upon admittance into the professional strand of the education program. Students are required to use the SRU pre-participation examination form. This will be done to ensure that each student's physical and mental health will permit him or her to meet the established technical standards. The Office of Diversity and Equal Opportunity will evaluate a student who states that he/she cannot meet the program's technical standards as outlined in the Office of Diversity and Equal Opportunity policies.

Admission into the professional strand of the ATP is competitive. The number of seats in the program is limited because of the faculty-to-student ratio recommended for accreditation. Formal application to the professional strand of the ATP must be completed by March of the student's freshman (first) year on campus. Formal application for admission consideration requires the following evidence:

1. Completion of ERS 107 (Introduction to Athletic Training) at Slippery Rock University with a minimum grade of "B."

2. Completion of ERS 101 (Applied Anatomy) with a minimum grade of "B".
3. A cumulative GPA of 2.75 or above in athletic training major courses and overall.
4. Completion of 50 hours of athletic training observation under a BOC certified athletic trainer (these 50 hours may be accumulated with the start of the fall semester of the student's first year on campus). The 50 hours must also be verified by the supervising the certified athletic trainer being observed. Licensed physical therapists that also hold the ATC credential may be observed as well.
5. Active membership in the Slippery Rock University Athletic Training Association.
6. Letter of application/intent, resume, and official SRU transcript or MySRU printout of grades.
7. Completed recommendation form from the BOC certified athletic trainer who supervised the athletic training observation.
8. A 500-word essay on a topic to be announced each year.

Applicants will be ranked on the basis of GPA. Top ranked applicants will be scheduled for a personal interview. Final admission decisions will be made on the basis of academic, personal, and professional qualifications as evidenced by the student's application materials and interview responses. Students will be notified of admission decisions by the end of the freshman (first) year. Because the number of applicants may exceed the available seats, meeting the minimum criteria does not guarantee acceptance into the program. Students who have been selected for admission to the ATP officially begin the professional strand of the major during the sophomore (second) year.

Policy for Retention in the Athletic Training Program

Students who are accepted into the professional strand of the ATP are required to satisfy didactic and clinical education requirements throughout their remaining semesters in the program. Specifically, students must maintain a major and overall GPA at or above 2.75 and may not receive a grade of "D" or more than two grades of "C" in required major courses while enrolled in the professional strand of the ATP. Failure to maintain the minimum requirements for didactic and clinical education will result in one semester of probation. Students who must repeat a major course requirement may have to do so with the next cohort. If the deficiencies are not corrected to the satisfaction of the faculty by the end of the probationary period, the student will be permanently dismissed from the program. Upon recommendation of the faculty, students achieving compliance with the minimum standards following a probationary status will be permitted to complete the ATP, which may require additional semesters.

Board of Certification Credentialing Examination

Athletic training students who successfully complete all of the program requirements and receive the ATP coordinator's endorsement are eligible to take the BOC credentialing examination administered by the BOC. Slippery Rock University graduates obtaining BOC certification are eligible for state certification by the Pennsylvania State Boards of Medicine and Osteopathic Medicine, as well as with other state regulatory agencies.

Transfer Students and Upperclassmen

The Athletic Training Program requires a minimum of 3.5 full years (seven semesters) of coursework and a clinical experience in a structured and sequenced curriculum. Due to this rigorous program, transfer students and upperclassmen declaring a major in athletic training are placed at the freshman level. As required for all other ATP students, transfer students and upperclassmen must complete the above application process and coursework.

Program placed on moratorium 09/13/2016 UCC

Requirements for the Major - Credits: 60

Professional Strand Courses - Credits: 45

- ERS 107 - Introduction to Athletic Training Credits: 3
- ERS 117 - Prevention & Emergency Care in Athletic Training Credits: 3

- ERS 220 - Clinical Experiences in Athletic Training I Credits: 1
- ERS 221 - Lower Extremity Pathology, Diagnosis and Manual Techniques in Athletic Training Credits: 4
- ERS 222 - Fundamentals of Research in Athletic Training Credits: 3
- ERS 241 - Upper Extremity Pathology, Diagnosis and Manual Techniques in Athletic Training Credits: 4
- ERS 307 - Concepts of General Medicine in Athletic Training Credits: 4
- ERS 310 - Clinical Experiences in Athletic Training II Credits: 1
- ERS 317 - Therapeutic Modalities Theory & Technique Credits: 4
- ERS 320 - Clinical Experiences in Athletic Training III Credits: 1
- ERS 340 - Clinical Experiences in Athletic Training IV Credits: 1
- ERS 347 - Therapeutic Rehabilitation in Athletic Training Credits: 4
- ERS 407 - Health Care Administration in Athletic Training Credits: 3
- ERS 417 - Wellness and Reconditioning in Athletic Training Credits: 3
- ERS 427 - Mastery in Athletic Training Credits: 3
- ERS 497 - Clinical Synthesis in Athletic Training Credits: 3

Other Major Requirements - Credits: 15

- ERS 101 - Applied Anatomy/Lab Credits: 3
- ERS 201 - Exercise Physiology/Lab Credits: 3
- ERS 202 - Biomechanics/Lab Credits: 3
- PE 237 - Emergency Medical Response Credits: 3
- HLTH 424 - Nutrition and Exercise Credits: 3
- or
- ERS 424 - Nutrition and Exercise Credits: 3

Exercise & Rehabilitative Science College-Wide Requirement - Credits: 13

- BIOL 216 - Anatomy and Physiology I /Lab Credits: 3
- BIOL 217 - Anatomy and Physiology II/Lab Credits: 3
- STAT 152 - Elementary Statistics I Credits: 3
- PHYS 201 - Elements of Physics I/ Lab Credits: 4

Free Electives

Major Electives, Other Liberal Studies Electives, and Free Electives are needed to complete a degree with 120 credits.

Exercise Science (BS)

Exercise and Rehabilitative Sciences

Program Overview

The Exercise Science program at Slippery Rock University is one of the most prestigious programs of its kind in the country. Students in this major are prepared to become leaders in the industry while developing expertise in utilizing cutting edge technology and hands on learning experiences under the careful supervision of a student-centered faculty. The curriculum provides a strong science base including anatomy, exercise physiology, and biomechanics, and then allows application of knowledge in practical experiences working with "real" people. The Exercise Science Program became one of the first six schools in the nation to receive accreditation from the Commission on Accreditation of Allied Health Programs (CAAHEP), the largest programmatic accreditor in the health-sciences field. The program is also endorsed by the National Strength and Conditioning Association. With a degree in Exercise Science from Slippery Rock University, graduates are recognized as qualified and respected professionals in the field.

The Exercise Science major at SRU prepares undergraduate students with the knowledge and skills to be accepted and successful in a variety of graduate programs in the health care professions. Students will also be prepared to work as a professional in the wellness/health/fitness fields. Exercise Science professionals graduating from our program are skilled in:

- Evaluating health behaviors & risk factors
- Conducting fitness assessments
- Developing and implementing safe & effective exercise prescriptions
- Coaching individuals to modify health habits and maintain positive lifestyle behaviors

Mission Statement

Transform individuals into a team of critically thinking scientists prepared for success in a variety of graduate studies and professions in health, wellness, and fitness.

Program Outcomes

- Professional Interaction and Communication

To interact and communicate effectively by presenting information in oral, written, and technology formats; collaborating with professionals and peers; expressing ideas clearly; and giving and receiving feedback.

- Professional Competence

To utilize knowledge, skills, and abilities to evaluate health behavior and risk factors; develop, implement, and evaluate exercise and wellness programs, and employ behavioral strategies to motivate individuals to adopt and maintain positive lifestyle behaviors.

- Professional Ethics and Conduct:

To demonstrate behavior that preserves the integrity of a profession, prevents misrepresentation, and protects the consumer.

- Professional and Personal Development:

To continuously improve knowledge, skills, and abilities and to uphold a professional image through actions and appearance.

- Critical Thinking

To demonstrate clear and accurate reasoning to make decisions and solve problems.

ACADEMIC POLICIES FOR STUDENTS IN THE EXERCISE SCIENCE MAJOR

Effective for students entering the major Fall 2012 and after

I. Policy for achieving and maintaining "Sufficient Academic Performance"*

A. At the end of the semester in which a student has earned 40 credits (and every semester thereafter), the Major and Overall GPA will be reviewed:

i. A student must earn a 2.75 Major and Overall GPA to achieve "Sufficient Academic Performance" and continue in the Exercise Science major.

ii. A student earning below a 2.75 in either the Major or Overall GPA at any time after earning 40 credits will be placed on a "Exercise Science probation." ** He/she must increase his/her GPA to 2.75 or higher by the end of the "one semester probation" or be **PERMANENTLY** removed from the Exercise Science major. The student will be notified by email of his/her status following the "Exercise Science probation." A student who has not achieved "Sufficient Academic Performance" will have his/her major changed to Exploratory and ERS - Exercise Science Major courses will be removed from his/her schedule.

iii. A student can be placed on a "Exercise Science probation" a maximum of two times as an Exercise Science major. He/she will be **PERMANENTLY** removed from the Exercise Science major if his/her Major or Overall GPA drops below a 2.75 a third time.

iv. A student on a "Exercise Science probation" may not enroll in Required 400 Level Courses unless he/she is repeating the course(s).

B. A transfer student who enters from another university or a Slippery Rock University student who changes his/her major to Exercise Science:

i. With 40 or more earned credits will have a one-semester extension before his/her Major and Overall GPA are reviewed to determine if he/she has achieved "Sufficient Academic Performance".

ii. With less than 40 earned credits will follow Policy I.A above.

C. An incoming FYRST student earning college credits prior to entering SRU may reach 40 credits before completing two semesters at SRU. In this case, the review to determine "Sufficient Academic Performance" will not begin until the student has completed two semesters as a student in the Exercise Science major.

II. Policy for earning acceptable grades in Required 400 Level Courses

A. A student must earn a grade of "C" or better in Required 400 Level Courses.

B. A student will not be permitted to begin an internship unless he/she has "Sufficient Academic Performance" and he/she has earned a grade of "C" or better in Required 400 Level Courses.

C. A student must also earn a grade of "C" or better in ERS400, ERS401, ERS402, and ERS403 before he/she is allowed to take ERS410, ERS411, and ERS412.

III. Policy for changing to the Exercise Science major

A. A Slippery Rock University student wishing to change his/her major to Exercise Science MUST have an overall GPA of 2.75.

IV. Additional costs associated with the Exercise Science major

A. A student in the Exercise Science major is required to maintain current CPR/AED, First Aid, and Student Professional Liability Insurance while enrolled in ERS412 and ERS450 at his/her own cost. (On-line CPR/AED and First Aid certifications are not acceptable).

* "Sufficient Academic Performance" is defined as having a Major and Overall GPA of 2.75 or higher. The Major GPA is comprised of Required Basic Courses, Required 400 Level Courses and Exercise and Rehabilitative Science College Wide Requirements. Please see My Rock Audit for specific courses.

** "Exercise Science probation" is defined as the initial semester and the first occurring summer after Sufficient Academic Performance (SAP) is not achieved. For example, if SAP was not achieved at the end of the fall 2017 semester, "Exercise Science probation" would include spring 2018 and summer 2018 and fall 2018.

This program prepares you to sit for national examinations. While professional licensure/certification is not required, some employers may require certification.

Requirements for the Major - Credits: 57

Required Basic Courses - Credits: 21

- ERS 100 - Introduction to Exercise Science: Careers and Content Credits: 3
- ERS 101 - Applied Anatomy/Lab Credits: 3
- ERS 201 - Exercise Physiology/Lab Credits: 3
- ERS 202 - Biomechanics/Lab Credits: 3
- ERS 300 - Research Methods in Exercise Science Credits: 3
- ERS 301 - Aerobic Exercise Leadership Credits: 3
- ERS 302 - Exercise Leadership: Resistance Training Credits: 3

Required ES Upper Level Courses - Credits: 36

Note: Students must have achieved "Sufficient Academic Performance" to take these courses. Students must earn a "C" or better in all of the following courses.

- ERS 424 - Nutrition and Exercise Credits: 3
OR
- HLTH 424 - Nutrition and Exercise Credits: 3

- ERS 400 - Wellness Coaching and Program Management Credits: 3
- ERS 401 - Fitness Assessment Credits: 3
- ERS 402 - Exercise Prescription Credits: 3
- ERS 403 - Advanced Exercise Physiology/Lab Credits: 3
- ERS 410 - Clinical Exercise Physiology/Lab Credits: 3
- ERS 411 - Exercise Science: Special Populations and Conditions Credits: 3
- ERS 412 - Exercise Science: Senior Synthesis Credits: 3
- ERS 450 - Exercise Science Internship Credits: 1 to 12

College Wide Requirements - Credits: 13

- BIOL 216 - Anatomy and Physiology I /Lab Credits: 3
- BIOL 217 - Anatomy and Physiology II/Lab Credits: 3
- STAT 152 - Elementary Statistics I Credits: 3
- PHYS 201 - Elements of Physics I/ Lab Credits: 4

Exercise Science (BS) - Physical Therapy 3+3

Exercise and Rehabilitative Sciences

The Exercise Science Program offers a Pre-Physical Therapy 3+3 option for students interested in a career as a Physical Therapist. Undergraduate students work with their academic advisor to complete the courses needed to fulfill the requirements for both an undergraduate degree and the admissions requirements for the Doctor of Physical Therapy program.

The first year of the Doctor of Physical Therapy program meets the requirements for the fourth year of the undergraduate degree. Approved undergraduate majors in **Biology, Health Science-Public Health and Recreational Therapy** are also available for the Pre-Physical Therapy 3+3 option. Other majors can be used to pursue the Doctor of Physical Therapy, but students cannot apply until after completing their undergraduate degree and they, too, must meet all Doctor of Physical Therapy admission criteria.

SLIPPERY ROCK UNIVERSITY PRE-PHYSICAL THERAPY 3+3 REQUIREMENTS

If any of these requirements are not met, the 3+3 designation will be removed from the student's record:

1. A 3.0 or higher overall GPA must be maintained by the student.
2. The student can only be enrolled in the Pre-Physical Therapy 3+3 program for a maximum of three (3) years, full-time continuous enrollment (fall/spring).

Provision for Slippery Rock Pre-PHYSICAL THERAPY 3+3 Students entering the Doctor of Physical Therapy program:

Should a Pre-Physical Therapy 3+3 student be unsuccessful in completing the 1st year (any of summer, fall, or spring terms) of the Doctor of Physical Therapy program and wants to complete the original undergraduate degree, it is solely up to the discretion of the undergraduate program Department Chair to determine which, if any, Physical Therapy courses will count toward the completion of his/her undergraduate degree. In addition, students must complete any unfulfilled requirements of their undergraduate major. Students may still apply to the Doctor of Physical Therapy program with an earned Bachelor's degree.

For application requirements, please refer to Slippery Rock University's Doctor of Physical Therapy program website.

Requirements for the Major - Credits: 45

Required Basic Courses - Credits: 21

- ERS 100 - Introduction to Exercise Science: Careers and Content Credits: 3
- ERS 101 - Applied Anatomy/Lab Credits: 3
- ERS 201 - Exercise Physiology/Lab Credits: 3
- ERS 202 - Biomechanics/Lab Credits: 3
- ERS 300 - Research Methods in Exercise Science Credits: 3
- ERS 301 - Aerobic Exercise Leadership Credits: 3
- ERS 302 - Exercise Leadership: Resistance Training Credits: 3

Required ES Upper Level Courses - Credits: 24

Note: Students must have achieved "Sufficient Academic Performance" to take these courses. Students must earn a "C" or better in all of the following courses.

- ERS 424 - Nutrition and Exercise Credits: 3
- or
- HLTH 424 - Nutrition and Exercise Credits: 3
- ERS 400 - Wellness Coaching and Program Management Credits: 3
- ERS 401 - Fitness Assessment Credits: 3
- ERS 402 - Exercise Prescription Credits: 3
- ERS 403 - Advanced Exercise Physiology/Lab Credits: 3
- ERS 410 - Clinical Exercise Physiology/Lab Credits: 3
- ERS 411 - Exercise Science: Special Populations and Conditions Credits: 3
- ERS 412 - Exercise Science: Senior Synthesis Credits: 3

College Wide Requirements - Credits: 13

- BIOL 216 - Anatomy and Physiology I /Lab Credits: 3
- BIOL 217 - Anatomy and Physiology II/Lab Credits: 3
- STAT 152 - Elementary Statistics I Credits: 3
- PHYS 201 - Elements of Physics I/ Lab Credits: 4

Additional Physical Therapy Pre-requisite Admissions Requirements - Credits: 12

- CHEM 107 - General Chemistry I Credits: 3
- CHEM 108 - General Chemistry II Credits: 3
- CHEM 111 - General Chemistry I Lab Credits: 1
- CHEM 112 - General Chemistry II Lab Credits: 1
- PHYS 202 - Elements of Physics II/ Lab Credits: 4

Exercise Science (BS) - Pre-Physician Assistant 3+2

The Exercise Science Program offers a Pre-Physician Assistant 3+2 option for students interested in a career as a Physician Assistant. Undergraduate students work with their academic advisor to complete the courses needed to fulfill

the requirements for both an undergraduate degree and the admissions requirements for the Master of Science in Physician Assistant Studies program.

The first year of the Master of Science in Physician Assistant Studies program meets the requirements for the fourth year of the undergraduate degree. Approved undergraduate majors in **Biology, Health Science-Public Health, and Psychology** are also available for the Pre-Physician Assistant 3+2 option. Other majors can be used to pursue the Master of Science in Physician Assistant Studies, but students cannot apply until after completing their undergraduate degree and they, too, must meet all Master of Science in Physician Assistant Studies admission criteria.

SLIPPERY ROCK UNIVERSITY PRE-PHYSICIAN ASSISTANT 3+2 REQUIREMENTS

If any of these requirements are not met, the 3+2 designation will be removed from the student's record:

1. A 3.0 or higher overall GPA must be maintained by the student.
2. The student can only be enrolled in the Pre-Physician Assistant 3+2 program for a maximum of three (3) years, full-time continuous enrollment (fall/spring).

Provision for Slippery Rock Pre-Physician Assistant 3+2 Students entering the Master of Science in Physician Assistant Studies program:

Should a Pre-Physician Assistant 3+2 student be unsuccessful in completing the 1st year (any of summer, fall, or spring terms) of the Physician Assistant program and wants to complete the original undergraduate degree, it is solely up to the discretion of the undergraduate program Department Chair to determine which, if any, Physician Assistant courses will count toward the completion of his/her undergraduate degree. In addition, students must complete any unfulfilled requirements of their undergraduate major. Students may still apply to the Physician Assistant Studies program with an earned Bachelor's degree.

For application requirements, please refer to Slippery Rock University's Physician Assistant Studies (Master of Science in Physician Assistant Studies) website.

Major Requirements - Credits: 45

Required Basic Courses - Credits: 21

- ERS 100 - Introduction to Exercise Science: Careers and Content Credits: 3
- ERS 101 - Applied Anatomy/Lab Credits: 3
- ERS 201 - Exercise Physiology/Lab Credits: 3
- ERS 202 - Biomechanics/Lab Credits: 3
- ERS 300 - Research Methods in Exercise Science Credits: 3
- ERS 301 - Aerobic Exercise Leadership Credits: 3
- ERS 302 - Exercise Leadership: Resistance Training Credits: 3

Required Upper Level Courses - Credits: 24

24 credits if accepted into the SRU PA Program. Must have achieved "Sufficient Academic Performance" to take these courses. Must earn a "C" or better in all of the following ERS courses.

- ERS 424 - Nutrition and Exercise Credits: 3
- OR
- HLTH 424 - Nutrition and Exercise Credits: 3
- ERS 400 - Wellness Coaching and Program Management Credits: 3

- ERS 401 - Fitness Assessment Credits: 3
- ERS 402 - Exercise Prescription Credits: 3
- ERS 403 - Advanced Exercise Physiology/Lab Credits: 3
- ERS 410 - Clinical Exercise Physiology/Lab Credits: 3
- ERS 411 - Exercise Science: Special Populations and Conditions Credits: 3
- ERS 412 - Exercise Science: Senior Synthesis Credits: 3

College Wide Requirements - Credits: 13

- BIOL 216 - Anatomy and Physiology I /Lab Credits: 3
- BIOL 217 - Anatomy and Physiology II/Lab Credits: 3
- STAT 152 - Elementary Statistics I Credits: 3
- PHYS 201 - Elements of Physics I/ Lab Credits: 4

Additional Physician Assistant Prerequisite Admission Requirements

If you choose to pursue Pre-Physician Assistant Exercise Science 3+2 and are not accepted into the PA program, then ERS450: Internship is required to complete a first major of Exercise Science. Please refer to the Exercise Science Curriculum Guide.

Please refer to the Exercise Science Pre-Physician Assistant SRU 3+2 Curriculum Guide for all prerequisite requirements and policies.

- BIOL 104 - Principles of Biology/Lab Credits: 4
- BIOL 250 - Genetics/Lab Credits: 4
- BIOL 210 - Medical Microbiology/Lab Credits: 3
- OR
- BIOL 330 - Microbiology/Lab Credits: 3
- CHEM 107 - General Chemistry I Credits: 3
- CHEM 111 - General Chemistry I Lab Credits: 1
- CHEM 108 - General Chemistry II Credits: 3
- CHEM 112 - General Chemistry II Lab Credits: 1
- CHEM 201 - Organic Chemistry I Credits: 3
- ERS 250 - Medical Terminology Credits: 3
- OR
- PA 500 - Applied Med Term for PA's Credits: 1

Exercise Science Pre-Occupational Therapy SRU 3+3

Major Requirements - Credits: 45

Required Basic Courses - Credits: 21

- ERS 100 - Introduction to Exercise Science: Careers and Content Credits: 3
- ERS 101 - Applied Anatomy/Lab Credits: 3

- ERS 201 - Exercise Physiology/Lab Credits: 3
- ERS 202 - Biomechanics/Lab Credits: 3
- ERS 300 - Research Methods in Exercise Science Credits: 3
- ERS 301 - Aerobic Exercise Leadership Credits: 3
- ERS 302 - Exercise Leadership: Resistance Training Credits: 3

Required Upper Level Courses - Credits: 24

24 credits if accepted to SRU DOT Program. Must have achieved 'Sufficient Academic Performance' to take these courses. Must earn a "C" or better in all of the following ERS courses.

- ERS 400 - Wellness Coaching and Program Management Credits: 3
- ERS 401 - Fitness Assessment Credits: 3
- ERS 402 - Exercise Prescription Credits: 3
- ERS 403 - Advanced Exercise Physiology/Lab Credits: 3
- ERS 410 - Clinical Exercise Physiology/Lab Credits: 3
- ERS 411 - Exercise Science: Special Populations and Conditions Credits: 3
- ERS 412 - Exercise Science: Senior Synthesis Credits: 3
- ERS 424 - Nutrition and Exercise Credits: 3
- OR
- HLTH 424 - Nutrition and Exercise Credits: 3

College Wide Requirement - Credits: 13

- BIOL 216 - Anatomy and Physiology I /Lab Credits: 3
- BIOL 217 - Anatomy and Physiology II/Lab Credits: 3
- STAT 152 - Elementary Statistics I Credits: 3
- PHYS 201 - Elements of Physics I/ Lab Credits: 4

Additional Occupational Therapy Prerequisite Courses - Creds: 6

- ERS 250 - Medical Terminology Credits: 3
- OR
- HCAM 250 - Medical Terminology for Healthcare Administrators Credits: 3
- PSYC 276 - Introduction to Abnormal Psychology Credits: 3

Geography, Geology, and the Environment

Geography, Geology, and the Environment

Office: 319 Advanced Technology and Science Hall

Phone: 724-738-2048

Email: gge-info@sru.edu

Department Chair

Stentor Danielson

Department Secretary

Cindy Schnur

Faculty

Patrick Burkhart, Patricia Campbell, Xianfeng Chen, Stentor Danielson, Heike Hartmann, Jack Livingston, Tamra Schiappa, Langdon Smith, Julie Snow, Jialing Wang, Michael Zieg

Geology and Geography are recognized for their contributions to the better understanding of the earth, nature-society relations, and global and regional situations as well as local issues. Our department's educational mission is to advance the perspectives and insights of geology, geography, and environmental science and studies via high quality curricular programs for our majors and high quality liberal studies courses for non-majors. Complementary missions are to extend knowledge in our disciplines through research and to provide service to the university and our region.

The Department of Geography, Geology, and the Environment offers a variety of field based perspectives on the study of the earth and people's relation to it. Students can focus on the physical nature of the earth, on the nature of places on the earth's surface, or on the geographic study of economic, political, and cultural processes. Or students may take a more interdisciplinary approach and integrate knowledge from many disciplines in the study of environmental issues.

Certificate in Geographic Information Science - Credits: 15

The certificate is specifically designed to provide specialized skills to individuals who currently work with spatial data in their chosen field or would like to leverage geospatial data in future employment. The curriculum is designed to support the increasing importance of geospatial data and analysis across diverse disciplines including geography, biological and environmental sciences, business and logistics, resource management and geosciences, planning and conservation.

The curriculum consists of twelve credits that can be completed in two semesters of coursework. The scope of coursework is designed to support individuals already familiar with basic computer concepts and descriptive statistics principles.

Required Courses - Credits: 9

- CPSC 130 - Introduction to Computing and Programming Credits: 3
- GES 315 - Cartography I Credits: 3
- GES 325 - Introduction to Geographic Information Science Credits: 3

Special Interest Area - Credits: 6

Choose two courses from the following:

- GES 410 - Remote Sensing Credits: 3
- GES 415 - Cartography II Credits: 3
- GES 425 - Advanced Geographic Information Systems Credits: 3
- GES 426 - Environmental Modeling Credits: 3

Certificate in Sustainability

This interdisciplinary certificate should benefit a diverse population of students who might not be introduced to such concepts through completion of their degree program. Students who obtain a Certificate in Sustainability will be better prepared to critically evaluate society's interactions with the environment and to help find ethical and equitable solutions to environmental challenges.

Objectives and/or competencies for the program include:

- Recognize how day-to-day activities impact global societies and the natural environment.
- Understand how to use natural resources efficiently and produce a small ecological footprint.
- Identify environmental problems and work within a profession or community to find creative and equitable solutions.
- Understand the energy-environment connection, as well as underlying economic and political considerations, in order to be effective agents of change for practical, long-term sustainability.

Certificate in Sustainability - Credits: 12

Students will complete one course from at least two of the three categories, and complete the capstone course, Principles of Sustainability.

Only two of the four courses can be from the same academic discipline.

Environmental Stewardship

- BIOL 105 - Environmental Biology Credits: 3
- BIOL 322 - Conservation Biology / Lab Credits: 3
- BIOL 401 - Ecology/Lab Credits: 3
- EGEO 100 - Environmental Geology Credits: 3
- EGEO 131 - Oceanography Credits: 3
- ENV5 440 - Science, Technology and the Environment Credits: 3
- GES 135 - Introduction to Environmental Problems Credits: 3
- GES 235 - Conservation Credits: 3
- GES 355 - Earth's Changing Climate Credits: 3
- PCRM 104 - Foundations in Sustainability Credits: 3

Social Responsibility

- ENGL 410 - Literature of the Environment Credits: 3
- GES 215 - Planning for Sustainable Communities Credits: 3
- GES 324 - Environmental Law and Policy Credits: 3
- GES 344 - Environmental Justice Credits: 3
- HIST 445 - Americans and the Environment Credits: 3
- INDP 120 - Civic Engagement and Community Decision-Making Credits: 3
- INDP 320 - Community Change and Development Credits: 3
- INDP 325 - Social and Ethical Issues in Philanthropy and Fundraising Credits: 3

- INDP 401 - Applied Anthropology Credits: 3
- PHIL 324 - Environmental Ethics Credits: 3
- PHIL 331 - Social and Political Philosophy Credits: 3

Economic Prosperity

- ECON 315 - Economics of Sustainable Development Credits: 3
- GES 305 - Environmental Economic Geography Credits: 3
- HEMT 114 - Sustainability in the Hospitality Industry Credits: 3
- HEMT 210 - Ecotourism Credits: 3
- HEMT 314 - Sustainable Planning for Tourism Credits: 3
- BUSA 370 - Sustainable Entrepreneurship and Innovation Credits: 3
- BUSA 459 - Sustainable Business Consulting Credits: 3
- OR
- MGMT 459 - Sustainable Business Consulting Credits: 3
- PHIL 326 - Business Ethics Credits: 3

Capstone Experience - Required

- GES 362 - Applications in Sustainability Credits: 3

Environmental Geoscience (B.S) - Geology

Geography, Geology and the Environment

The environmental geoscience (BS) track in geology focuses on providing students with a scientific understanding of the Earth and surrounding environment. The student in geology gains an understanding of the various terrestrial processes and features (mountains, oceans, volcanoes, glaciers); the immenseness of geologic time, the history of the earth and organisms that inhabit it (fossils); the role of water, fuel, and mineral resources in the development of civilization; and the close interaction between the geologic and organic environments.

Demand for the professional geologist comes from the needs of engineering, hydrogeologic and environmental firms; geological surveys; oil, gas and mining companies; state and national parks; museums; conservation agencies; planning commissions; and teaching institutions. A student who completes a bachelor of science in geology will have the basis for entry to graduate schools or for employment as a geologist.

Candidates completing this program are eligible to sit for the two-part Association State Boards of Geology (ASBOG) examination required for a Professional Geologist license in Pennsylvania. The first examination, Fundamentals of Geology, can be taken upon graduation. The second examination, Principles and Practices of Geology, can be taken after working for five years. Regulations for licensing vary by state and you are urged to check with the licensing board in the state you will be working.

Major Requirements - Credits: 58

Environmental Geoscience Core - Credits: 15

Any EGEO 100 level course and the courses listed below.

- Any EGEO 100 level course
- EGEO 201 - Earth Materials and Processes/Lab Credits: 4
- EGEO 202 - Earth History/Lab Credits: 4
- EGEO 203 - Quantitative Methods Credits: 3
- EGEO 272 - Introduction to Georeports/Lab Credits: 1

Geology Track Core Requirements - Credits: 23

- EGEO 303 - Paleontology/Lab Credits: 4
- EGEO 327 - Structural Geology/Lab Credits: 4
- EGEO 341 - Geomorphology/Lab Credits: 3
- EGEO 351 - Mineralogy/Lab Credits: 4
- EGEO 352 - Petrology/Lab Credits: 4
- EGEO 362 - Stratigraphy/Lab Credits: 4

Electives - Geology Track - Credits: 9

Choose 9 credits from the following.

- EGEO 271 - Geotechniques: Lab Credits: 2
- EGEO 323 - Planetary Geology Credits: 3
- EGEO 328 - Plate Tectonics Credits: 3
- EGEO 342 - Glacial Geology/Lab Credits: 3
- EGEO 358 - Introduction to Geophysics/Lab Credits: 3
- EGEO 360 - Introduction to Hydrology/Lab Credits: 3
- EGEO 448 - X-ray Spectrometry/Lab Credits: 3
- EGEO 451 - Geochemistry/Lab Credits: 4
- EGEO 453 - Geotechniques: Geochemistry/Lab Credits: 1
- EGEO 458 - Geophysical Field Methods/Lab Credits: 3
- EGEO 460 - Hydrogeology/Lab Credits: 3
- EGEO 469 - Field Investigations in the Geosciences Credits: 1 to 3
- EGEO 476 - Geotechniques: Geophysics/Lab Credits: 1
- EGEO 482 - Senior Seminar Credits: 1
- EGEO 498 - Selected Topics Credits: 1 to 3 Credits: 3
- ENVS 311 - Environmental Monitoring and Sampling Credits: 3

Field Camp - Credits: 4

Minimum 4 credits at an acceptable field station.

- EGEO 399 - Field Camp Credits: 1 to 9

Related Courses - Credits: 7

- GES 325 - Introduction to Geographic Information Science Credits: 3
OR
- GES 410 - Remote Sensing Credits: 3

- MATH 230 - Calculus II Credits: 4

Required Related Courses - Credits:7-8

- CHEM 108 - General Chemistry II Credits: 3
- CHEM 112 - General Chemistry II Lab Credits: 1
- PHYS 212 - General Physics II/ Lab Credits: 3
OR
- PHYS 213 - General Physics III/ Lab Credits: 4

Natural Science & Math College Wide Requirement - Credits: 12

- CHEM 107 - General Chemistry I Credits: 3
- CHEM 111 - General Chemistry I Lab Credits: 1
- MATH 225 - Calculus I Credits: 4
- PHYS 211 - General Physics I/ Lab Credits: 4

Environmental Geoscience (BA) - Optional Pre Master of Education

Geography, Geology and the Environment

The environmental geoscience (BA) focuses on providing students with a scientific understanding of the Earth and surrounding environment. The student in geology gains an understanding of the various terrestrial processes and features (mountains, oceans, volcanoes, glaciers); the immenseness of geologic time, the history of the earth and organisms that inhabit it (fossils); the role of water, fuel, and mineral resources in the development of civilization; and the close interaction between the geologic and organic environments.

Students seeking state certification in secondary education must also complete requirements for a Master of Education degree, a one-year program at SRU. All of our programs are designed to steadily develop the quantitative, deductive and inductive reasoning skills that environmental geoscientists must have.

Requirements for the Major - Credits: 39-40

Core Major Requirements - Credits: 24-25

- Any 100-level EGEO course Credits: 3-4
- EGEO 201 - Earth Materials and Processes/Lab Credits: 4
- EGEO 202 - Earth History/Lab Credits: 4
- EGEO 272 - Introduction to Georeports/Lab Credits: 1
- GES 115 - Introduction to Geospatial Technologies Credits: 3
- GES 205 - Cultural Geography Credits: 3
- GES 324 - Environmental Law and Policy Credits: 3
- GES 325 - Introduction to Geographic Information Science Credits: 3

Capstone Experience - Credits: 3

- GES 444 - World Environmental Cultures Credits: 3
- EGEO 450 - Internship Credits: 1 to 12
OR
- GES 450 - Internship Credits: 1 to 12
- EGEO 469 - Field Investigations in the Geosciences Credits: 1 to 3
OR
- GES 469 - Field Investigations in the Geosciences Credits: 1 to 3

Specialized Area - Credits: 10

Choose 10 credits from one of the following Focus Areas, plus two electives:

Geology

- EGEO 303 - Paleontology/Lab Credits: 4
- EGEO 362 - Stratigraphy/Lab Credits: 4
- EGEO 327 - Structural Geology/Lab Credits: 4
- EGEO 328 - Plate Tectonics Credits: 3
- EGEO 358 - Introduction to Geophysics/Lab Credits: 3
- EGEO 342 - Glacial Geology/Lab Credits: 3
- EGEO 351 - Mineralogy/Lab Credits: 4
- EGEO 341 - Geomorphology/Lab Credits: 3

Geospatial Technology

- GES 315 - Cartography I Credits: 3
- GES 321 - Introduction to UAS for Remote Sensing and Monitoring Credits: 3
- GES 410 - Remote Sensing Credits: 3
- GES 415 - Cartography II Credits: 3
- GES 425 - Advanced Geographic Information Systems Credits: 3
- GES 426 - Environmental Modeling Credits: 3

Environmental Science

- EGEO 121 - Meteorology/Lab Credits: 4
- EGEO 360 - Introduction to Hydrology/Lab Credits: 3
- EGEO 340 - Air Pollution Meteorology/Lab Credits: 3
- EGEO 451 - Geochemistry/Lab Credits: 4
- EGEO 460 - Hydrogeology/Lab Credits: 3
- GES 355 - Earth's Changing Climate Credits: 3
AND
- GES 356 - Earth's Changing Climate Laboratory Credits: 1

Global Studies

- GES 201 - Latin America and the Caribbean Credits: 3
- GES 303 - Asia Credits: 3
- GES 307 - Australia Credits: 3
- GES 331 - Economic Geography Credits: 3
- GES 345 - Population Analysis Credits: 3

- GES 355 - Earth's Changing Climate Credits: 3
AND
- GES 356 - Earth's Changing Climate Laboratory Credits: 1

Sustainable Communities

- GES 215 - Planning for Sustainable Communities Credits: 3
- GES 235 - Conservation Credits: 3
- GES 344 - Environmental Justice Credits: 3

- GES 355 - Earth's Changing Climate Credits: 3
AND
- GES 356 - Earth's Changing Climate Laboratory Credits: 1

- GES 361 - Gender & the Environment Credits: 3
- GES 362 - Applications in Sustainability Credits: 3

Electives - Credits: 6-8

- Any EGEO or GEO 300 or 400-level course
- Any EGEO or GEO 300 or 400-level course

Optional Pre Master of Education

Recommended courses for optional environmental geoscience pre masters in education. Consult your adviser for additional courses

- SEFE 338 - Standards-Based Instruction & Assessment in the Inclusionary Classroom Credits: 3
- SPED 121 - High Incidence Disabilities Credits: 3

Natural Science & Mathematics College-Wide Requirement - Credits: 12

- CHEM 107 - General Chemistry I Credits: 3
- CHEM 111 - General Chemistry I Lab Credits: 1
- MATH 125 - Precalculus Credits: 4
OR
- MATH 225 - Calculus I Credits: 4
- PHYS 201 - Elements of Physics I/ Lab Credits: 4

OR

- PHYS 211 - General Physics I/ Lab Credits: 4

Modern Language Requirement - Credits: 0-9

Must satisfy language requirement at the 103 level

Environmental Geoscience (BS) - Environmental Science

Geography, Geology and the Environment

Coordinator

Michael Stapleton

Environmental science is the integration of scientific knowledge from many disciplines in order to understand the interrelationships between human activities and the environment. Environmental science majors are exposed to the general principles of biology, chemistry, geology, geography, meteorology, and physics. Thus, it is not a focus on one of these disciplines, but involves all of them and their interaction within environmental systems.

Environmental science majors could enter several general fields:

- Industry and Consulting, monitoring and investigating the contamination of the air, land and water. Responsibilities could range from working to reduce potential environmental contamination in an industrial setting, to remediating contamination that resulted from past disposal practices.
- Local, State, or Federal Environmental Agencies, working to monitor, enforce, and develop environmental policy and regulations.
- Environmental Research, working to understand and solve environmental problems. Students would continue their education in a graduate program focusing on an area of interest to them.

The program is rich in laboratory and field experiences that support our lecture classes. Students gain important practical experience working in the field studying environmental systems and problems. In addition, students are required to complete an approved internship or research project. We train our students not only with a liberal arts education and a broad-based scientific background, but with the skills that will enable them to succeed in a competitive work force. The department encourages undergraduate student research. Opportunities abound for students to work directly with the faculty on independent research projects.

ENVS 450 or 480 must be completed during the summer after your Junior or Senior year.

Requirements for the Major - Credits: 59

Environmental Geoscience Core - Credits: 15

- Any EGEO 100 level course, except EGEO 121 credits: 3
- EGEO 201 - Earth Materials and Processes/Lab Credits: 4
- EGEO 202 - Earth History/Lab Credits: 4
- EGEO 203 - Quantitative Methods Credits: 3
- EGEO 272 - Introduction to Georeports/Lab Credits: 1

Environmental Science Core Requirements - Credits: 21

- EGEO 121 - Meteorology/Lab Credits: 4
- EGEO 360 - Introduction to Hydrology/Lab Credits: 3
- EGEO 451 - Geochemistry/Lab Credits: 4
- BIOL 357 - Environmental Microbiology / Lab Credits: 4
- BIOL 401 - Ecology/Lab Credits: 3
- GES 324 - Environmental Law and Policy Credits: 3

Electives -Environmental Science Track - Credits: 7

- BIOL 305 - Wetlands and Aquatic Plants / Lab Credits: 3
- BIOL 306 - Freshwater Biomonitoring / Lab Credits: 3
- CHEM 340 - Air Quality Assessment/Lab Credits: 4
- CHEM 370 - Water Quality Assessment/Lab Credits: 4
- EGEO 340 - Air Pollution Meteorology/Lab Credits: 3
- EGEO 341 - Geomorphology/Lab Credits: 3
- EGEO 453 - Geotechniques: Geochemistry/Lab Credits: 1
- EGEO 460 - Hydrogeology/Lab Credits: 3
- ENVS 311 - Environmental Monitoring and Sampling Credits: 3
- GES 315 - Cartography I Credits: 3
- GES 325 - Introduction to Geographic Information Science Credits: 3
- GES 356 - Earth's Changing Climate Laboratory Credits: 1
- GES 410 - Remote Sensing Credits: 3
- GES 426 - Environmental Modeling Credits: 3
- MARS *** a Marine Science Summer Course Credits: 1-3

Required Internship, Research, or Additional Elective - Credits: 3

- ENVS 450 - Environmental Science Internship Credits: 1 to 12
- ENVS 480 - Environmental Systems Analysis Credits: 3
- BIOL 305 - Wetlands and Aquatic Plants / Lab Credits: 3
- BIOL 306 - Freshwater Biomonitoring / Lab Credits: 3
- CHEM 340 - Air Quality Assessment/Lab Credits: 4
- CHEM 370 - Water Quality Assessment/Lab Credits: 4
- EGEO 340 - Air Pollution Meteorology/Lab Credits: 3
- EGEO 460 - Hydrogeology/Lab Credits: 3
- EGEO 469 - Field Investigations in the Geosciences Credits: 1 to 3
- GES 315 - Cartography I Credits: 3
- GES 325 - Introduction to Geographic Information Science Credits: 3
- GES 410 - Remote Sensing Credits: 3
- MARS 3** Marine Science Summer Course Credits: 3
- MARS 4** Marine Science Summer Course Credits: 3

Required Related Courses - Credits: 7

- CHEM 200 - Fundamentals of Organic Chemistry Credits: 3
 - BIOL 104 - Principles of Biology/Lab Credits: 4
- OR

- BIOL 100 - Introductory Biology Laboratory Credits: 1
AND
- BIOL 101 - General Biology Credits: 3

Required Statistics Course - Credits: 3

Choose one of the following courses:

- BIOL 325 - Biometry / Lab Credits: 3
- STAT 252 - Introduction to Statistical Modeling Credits: 3

Additional Physical/Natural Science or Math Course - Credits: 3

Choose any 300/400 level BIOL, CHEM, EGEO, MATH, or PHYS.

May **not** use:

- BIOL 300
- EGEO 368
- MATH 310
- MATH 311
- PHYS 317

Required Related Courses (8 credits - also included in Liberal Studies)

These credits do not count toward the major total.

- CHEM 108 - General Chemistry II Credits: 3
- CHEM 112 - General Chemistry II Lab Credits: 1
- PHYS 213 - General Physics III/ Lab Credits: 4

Geography (BS) - Applied Geographic Technology

Geography, Geology and the Environment

Students in the Applied Geographic Technology program study the links between human beings and their environment as well as the links between one area of the earth's surface with another. This program is designed to prepare students for employment in technical occupations, planning, or postgraduate studies. The applied geographic technology student investigates the geographic study of environmental, economic, cultural, and political processes and becomes proficient in the fast growing field of geographic information technology. This program emphasizes the collection, analysis, and representation of earth data at scales ranging from the local to the global. Opportunities abound for students to engage in fieldwork, internships, and in the production of research in our department. If you enjoy learning about the Earth and its peoples and landscapes, either in your back yard or far away, please consider the opportunities our program provides.

The Applied Geographic Technology program provides students with a base in liberal arts skills (critical thinking, writing, and speaking) and in analytical skills such as data collection in the field, in the library, and on the computer; the use of global positioning systems; and the use of mapping, spreadsheet, and database software. Many of our students have found work that allows them to address important environmental and social issues in the private or public sector. Representative employment areas for our graduates include environmental consulting, pollution remediation, environmental monitoring, environmental law or public policy, resource management, geographic information systems analysis, nonprofit environmental organizations, and planning.

Requirements for the Major - Credits: 58-60

Basic Core - Credits: 12

- GES 150 - The Natural Environment Credits: 3
- GES 205 - Cultural Geography Credits: 3
- GES 315 - Cartography I Credits: 3
- GES 331 - Economic Geography Credits: 3

Techniques Core - Credits: 10

- EGEO 272 - Introduction to Georeports/Lab Credits: 1
- GES 115 - Introduction to Geospatial Technologies Credits: 3
- GES 220 - General Methods of Fieldwork Credits: 3
- GES 325 - Introduction to Geographic Information Science Credits: 3

Applied Geographic Technology Track Requirements - Credits: 15

- GES 345 - Population Analysis Credits: 3
- GES 410 - Remote Sensing Credits: 3
- GES 415 - Cartography II Credits: 3
- GES 425 - Advanced Geographic Information Systems Credits: 3
- GES 426 - Environmental Modeling Credits: 3

Other Required Technology Core - Credits: 6

- CPSC 130 - Introduction to Computing and Programming Credits: 3
- CPSC 146 - Programming Principles Credits: 3

Capstone Experience - choose one - Credits: 3

- GES 450 - Internship Credits: 1 to 12
- GES 489 - Applied Geospatial Technologies Credits: 3
- GES 490 - Independent Study Credits: 3

Select - Credits: 12-14

Four (4) courses from special interest area (e.g. geography, geology, economics, biology, criminology, political science, marketing, communication, history, parks and recreation, public health, and so on) under the consultation with students' academic advisor.

****Note:** at least three courses must be 300 Level.

Liberal Studies Requirements

See Geography - Track in Applied Geographic Technology curriculum guide for course requirements and recommendations

Geography (BS) - Environmental Studies & Sustainability

Geography, Geology and the Environment

Coordinator

Jack Livingston

Students in the environmental studies program study the links between humans and their environment. This program takes an interdisciplinary approach and integrates knowledge from the social and natural sciences in the study of environmental issues. An important goal of the program is for students to understand the relationships that exist between social, behavioral, and environmental systems. We emphasize the collection, analysis, and representation of earth data at scales ranging from the local to the global. Toward the end of their studies, students identify a research problem, gather and analyze data, and prepare a formal paper and presentation on their topic. Opportunities abound for students to engage in fieldwork, internships, and in the production of research in our department.

The environmental studies program provides students with a base in liberal arts skills (critical thinking, writing, and speaking) and in analytical skills such as data collection in the field, in the library, and on the computer; the use of global positioning systems; the use of mapping, spreadsheet, and database software. Many of our students have found work that allows them to address important environmental and social issues in the private or public sector. Representative employment areas for our graduates include environmental consulting, pollution remediation, environmental law or public policy, outdoor education, resource management, geographic information systems analysis, nonprofit environmental organizations, and planning.

Major Requirements - Credits: 56-58

The Environmental Studies major has a 40-hour service learning requirement.

Core - Credits: 12

- GES 150 - The Natural Environment Credits: 3
- GES 205 - Cultural Geography Credits: 3
- GES 315 - Cartography I Credits: 3
- GES 331 - Economic Geography Credits: 3

Techniques Core - Credits: 10

- GES 115 - Introduction to Geospatial Technologies Credits: 3
- GES 220 - General Methods of Fieldwork Credits: 3
- GES 325 - Introduction to Geographic Information Science Credits: 3
- EGEO 272 - Introduction to Georeports/Lab Credits: 1

Environmental Studies Core

Introductory Course - Credits: 3

Select one:

- BIOL 1__ Any BIOL 100 level course Credits: 3-4
- EGEO 1__ Any EGEO 100 level course Credits:3-4
- GES 135 - Introduction to Environmental Problems Credits: 3

Additional Environmental Studies Core Courses - Credits: 12

- GES 235 - Conservation Credits: 3
- GES 324 - Environmental Law and Policy Credits: 3
- GES 362 - Applications in Sustainability Credits: 3

Select one - Credits: 3

- GES 344 - Environmental Justice Credits: 3
- PHIL 324 - Environmental Ethics Credits: 3

Capstone Experience - Credits: 3

Select one:

- GES 444 - World Environmental Cultures Credits: 3
- GES 469 - Field Investigations in the Geosciences Credits: 1 to 3

Service Learning

A critical understanding of Community through 40 hours of Service Learning.

Electives - Credits: 16-18

Must choose at least one course from each block, at least five courses must be at 300 level or above.

Environment

- BIOL 104 - Principles of Biology/Lab Credits: 4

- BIOL 105 - Environmental Biology Credits: 3
- BIOL 120 - Plants and Society Credits: 3
- BIOL 305 - Wetlands and Aquatic Plants / Lab Credits: 3
- BIOL 306 - Freshwater Biomonitoring / Lab Credits: 3
- BIOL 401 - Ecology/Lab Credits: 3
- EGEO 121 - Meteorology/Lab Credits: 4
- EGEO 131 - Oceanography Credits: 3
- EGEO 3__, 4__ Any EGEO 300/400 level course Credits: 3
- ENGL 410 - Literature of the Environment Credits: 3
- GES 321 - Introduction to UAS for Remote Sensing and Monitoring Credits: 3
- GES 355 - Earth's Changing Climate Credits: 3
- GES 356 - Earth's Changing Climate Laboratory Credits: 1
- GES 426 - Environmental Modeling Credits: 3
- PCRM 348 - Natural History of Ecosystems I Credits: 3
- PCRM 349 - Natural History of Ecosystems II Credits: 3

Planning

- ECON 315 - Economics of Sustainable Development Credits: 3
- GES 215 - Planning for Sustainable Communities Credits: 3
- GES 345 - Population Analysis Credits: 3
- GES 363 - Energy and Society Credits: 3
- GES 410 - Remote Sensing Credits: 3
- GES 415 - Cartography II Credits: 3
- GES 425 - Advanced Geographic Information Systems Credits: 3
- HEMT 210 - Ecotourism Credits: 3
- HEMT 314 - Sustainable Planning for Tourism Credits: 3
- PCRM 377 - Cultural Resources Management Credits: 3

Community

- GES 344 - Environmental Justice Credits: 3
- GES 361 - Gender & the Environment Credits: 3
- GES 375 - Geography of Intolerance Credits: 3
- EGEO 368 - Women in Science Credits: 3
- HLTH 311 - International Health Credits: 3
- INDP 120 - Civic Engagement and Community Decision-Making Credits: 3
- INDP 220 - Introduction to Nonprofit Management Credits: 3
- INDP 304 - Urban Sociology Credits: 3
- INDP 309 - Health and Society Credits: 3
- INDP 320 - Community Change and Development Credits: 3
- PHIL 324 - Environmental Ethics Credits: 3

Geography (BS) - Global Studies

Geography, Geology, and the Environment

Coordinator: Stentor Danielson

The global studies program offers students an interdisciplinary perspective on our globalized world. Students in this program gain an understanding of the basic physical, cultural, economic, and political forces that shape our world, as well as in-depth exploration of particular places and regions of importance. Global studies majors learn to think cross-culturally about the major problems facing our world, and prepare for careers with an international focus.

The global studies program provides students with a base in liberal arts skills (critical thinking, writing, and speaking) and in analytical skills such as data collection in the field, in the library, and on the computer; the use of global positioning systems; the use of mapping, spreadsheet, and database software. Many of our students have found work that allow them to address important environmental and social issues in the private or public sector. Representative employment areas for our graduates include environmental consulting, pollution remediation, environmental law or public policy, outdoor education, resource management, geographic information systems analysis, nonprofit environmental organizations, and planning.

Major Requirements - Credits: 53-55

- 27 major credits must be taken at SRU or PASSHE
- 27 major credits must be taken at the 300 level or above

Basic Core - Credits: 12

- GES 150 - The Natural Environment Credits: 3
- GES 205 - Cultural Geography Credits: 3
- GES 315 - Cartography I Credits: 3
- GES 331 - Economic Geography Credits: 3

Techniques Core - Credits: 10

- GES 115 - Introduction to Geospatial Technologies Credits: 3
- GES 220 - General Methods of Fieldwork Credits: 3
- GES 325 - Introduction to Geographic Information Science Credits: 3
- EGEO 272 - Introduction to Georeports/Lab Credits: 1

Global Studies Requirements - Credits: 31-33

Global Studies Core - Credits: 6

- GES 105 - World Regional Geography Credits: 3
- Any 200-level Modern Languages course Credits: 3

Global Perspectives - Credits: 7-9

- GES 344 - Environmental Justice Credits: 3
- GES 355 - Earth's Changing Climate Credits: 3
- GES 356 - Earth's Changing Climate Laboratory Credits: 1
- GES 361 - Gender & the Environment Credits: 3

- HLTH 311 - International Health Credits: 3
- POLS 103 - International Relations Credits: 3
- POLS 263 - Introduction to Comparative Politics Credits: 3
- POLS 365 - International Political Economy Credits: 3

Capstone Experience - Credits: 3

Select 1:

- GES 444 - World Environmental Cultures Credits: 3
- GES 469 - Field Investigations in the Geosciences Credits: 1 to 3

Regional Studies

Select one from each of three areas (9 credits). An approved international experience may substitute for the relevant regional requirement.

Americas

Choose one course from the following:

- ENGL 242 - African-American Literature Credits: 3
- ENGL 244 - Native American Literature Credits: 3
- ENGL 246 - U.S. Latino / a Literatures Credits: 3
- GES 201 - Latin America and the Caribbean Credits: 3
- HIST 323 - African American History to 1876 Credits: 3
- HIST 324 - African American History Since 1876 Credits: 3
- HIST 337 - Native American History Credits: 3
- HIST 351 - Latin America to 1830 Credits: 3
- HIST 352 - Latin America Since 1830 Credits: 3
- HIST 353 - History of the Americas Credits: 3
- INDP 322 - Archaeology of the Americas Credits: 3
- POLS 370 - Latin American Politics and Development Credits: 3
- SPAN 215 - Topics in Hispanic Culture Credits: 3
- SPAN 307 - U.S. Latino Cultures Credits: 3
- SEFE 326 - ELL Strategies and Practice Credits: 3
- SPAN 328 - Latin America Today Credits: 3

Europe and Russia

- ENGL 314 - European Film Credits: 3
- FREN 215 - Topics in French and Francophone Culture Credits: 3
- FREN 305 - France through the Ages Credits: 3
- GES 204 - Post-Soviet Union Credits: 3
- GES 308 - Europe Credits: 3
- HIST 305 - Russia to 1855 Credits: 3
- HIST 306 - Russia Since 1855 Credits: 3

- HIST 346 - Rise of Imperial Britain Credits: 3
- HIST 371 - History of Jews Credits: 3
- SPAN 305 - Spain Today Credits: 3

Asia

- ENGL 248 - Asian Literature Credits: 3
- ELEC 316 - Developmental Formal & Informal Assessment Credits: 3
- GES 303 - Asia Credits: 3
- HIST 376 - Modern Japan Credits: 3
- HIST 381 - East Asian Military Traditions Credits: 3
- HIST 382 - Modern Asian Pacific Rim Credits: 3
- HIST 386 - Modern China Credits: 3
- INDP 310 - Cultural Area Studies Credits: 3
- INDP 360 - Women in Asian Societies Credits: 3
- PHIL 343 - Asian Philosophy Credits: 3

Middle East, Africa, and Oceania

- GES 307 - Australia Credits: 3
- GES 309 - Africa Credits: 3
- HIST 462 - The Contemporary Middle East Credits: 3
- HIST 463 - Israel - History, State, and Society Credits: 3
- HIST 380 - Egyptology Credits: 3
- INDP 310 - Cultural Area Studies Credits: 3

Geography Electives - Credits: 6

Select any 300/400 level GES or EGEO course, or any additional 300/400 level courses from the Regional Studies lists.

Minor in Environmental Science

Geography, Geology and the Environment

Requirements for the Minor - Credits: 20-22

Core Courses - Credits: 14

- EGEO 201 - Earth Materials and Processes/Lab Credits: 4
- EGEO 202 - Earth History/Lab Credits: 4
- EGEO 360 - Introduction to Hydrology/Lab Credits: 3
- EGEO 451 - Geochemistry/Lab Credits: 4

Elective Courses: select two courses from the following - Credits: 6-8

- BIOL 305 - Wetlands and Aquatic Plants / Lab Credits: 3
- BIOL 306 - Freshwater Biomonitoring / Lab Credits: 3
- BIOL 357 - Environmental Microbiology / Lab Credits: 4
- BIOL 401 - Ecology/Lab Credits: 3
- CHEM 340 - Air Quality Assessment/Lab Credits: 4
- CHEM 370 - Water Quality Assessment/Lab Credits: 4
- EGEO 341 - Geomorphology/Lab Credits: 3
- EGEO 327 - Structural Geology/Lab Credits: 4
- EGEO 340 - Air Pollution Meteorology/Lab Credits: 3
- EGEO 460 - Hydrogeology/Lab Credits: 3
- GES 315 - Cartography I Credits: 3
- GES 324 - Environmental Law and Policy Credits: 3
- GES 325 - Introduction to Geographic Information Science Credits: 3
- GES 410 - Remote Sensing Credits: 3

Minor in Geographic Information Technology

Geography, Geology and the Environment

Requirements for the Minor

Required Courses - Credits: 21

- GES 220 - General Methods of Fieldwork Credits: 3
- GES 315 - Cartography I Credits: 3
- GES 325 - Introduction to Geographic Information Science Credits: 3
- GES 410 - Remote Sensing Credits: 3
- GES 415 - Cartography II Credits: 3
- GES 425 - Advanced Geographic Information Systems Credits: 3
- GES 450 - Internship Credits: 1 to 12 CREDITS: 3

Minor in Geography

Geography, Geology and the Environment

Requirements for the Minor

Required Courses - Credits: 21

Group I: (Select 6 Credits)

- GES 150 - The Natural Environment Credits: 3
- GES 205 - Cultural Geography Credits: 3
- GES 331 - Economic Geography Credits: 3

Group II: (Select 3 Credits)

- GES 202 - United States and Canada Credits: 3
- GES 301 - Geography of Rural Areas Credits: 3

Group III: (Select 3 Credits)

- GES 220 - General Methods of Fieldwork Credits: 3
- GES 315 - Cartography I Credits: 3
- GES 410 - Remote Sensing Credits: 3

Electives: - Credits: 9

Any three G&ES courses at the 200 level or above.

Minor in Geology

20-23 Credits Required

Geography, Geology and the Environment

Required Courses - Credits: 11

- EGEO 1xx - Any 100-Level EGEO course Credits: 3
- EGEO 201 - Earth Materials and Processes/Lab Credits: 4
- EGEO 202 - Earth History/Lab Credits: 4

Electives - Credits: 9-12

Choose at least 3

- EGEO 303 - Paleontology/Lab Credits: 4
- EGEO 323 - Planetary Geology Credits: 3
- EGEO 327 - Structural Geology/Lab Credits: 4
- EGEO 328 - Plate Tectonics Credits: 3
- EGEO 341 - Geomorphology/Lab Credits: 3
- EGEO 342 - Glacial Geology/Lab Credits: 3
- EGEO 351 - Mineralogy/Lab Credits: 4
- EGEO 352 - Petrology/Lab Credits: 4
- EGEO 358 - Introduction to Geophysics/Lab Credits: 3

- EGEO 362 - Stratigraphy/Lab Credits: 4
- EGEO 458 - Geophysical Field Methods/Lab Credits: 3
- EGEO 460 - Hydrogeology/Lab Credits: 3

Minor in Geophysics

Geophysics is a discipline that is currently in high demand, particularly as a result of Marcellus Shale operations. This minor is designed to prepare students for graduate work in geophysics or industrial employment as a geophysical technician.

Requirements for the Minor - Credits: 18-19

Required Geophysics Core Courses - Credits: 6

- EGEO 358 - Introduction to Geophysics/Lab Credits: 3
- EGEO 458 - Geophysical Field Methods/Lab Credits: 3

Foundation Sequences - Credits: 12-13

Students must complete one of the Foundation Sequences below:

Required Foundation-Environmental Geoscience Majors - Credits: 13

- CPSC 146 - Programming Principles Credits: 3
- MATH 231 - Calculus III Credits: 4
- MATH 240 - Linear Algebra and Differential Equations Credits: 3
- PHYS 212 - General Physics II/ Lab Credits: 3

Required Foundation-Non-Environmental Geoscience Majors - Credits: 12

- EGEO 101 - Physical Geology Credits: 3
- EGEO 201 - Earth Materials and Processes/Lab Credits: 4
- MATH 240 - Linear Algebra and Differential Equations Credits: 3
- PHYS 212 - General Physics II/ Lab Credits: 3

Minor in Meteorology

Geography, Geology and the Environment

Requirements for the Minor - Credits: 23-24

Required Courses - 17 credits

- EGEO 121 - Meteorology/Lab Credits: 4
- EGEO 340 - Air Pollution Meteorology/Lab Credits: 3

- GES 355 - Earth's Changing Climate Credits: 3
- GES 356 - Earth's Changing Climate Laboratory Credits: 1
- CPSC 140 - Introduction to Programming Credits: 3
- MATH 230 - Calculus II Credits: 4

Elective Courses - Credits: 6 - 7

- MATH 240 - Linear Algebra and Differential Equations Credits: 3
- CHEM 340 - Air Quality Assessment/Lab Credits: 4
- EGEO 360 - Introduction to Hydrology/Lab Credits: 3
- PHYS 385 - Computational Physics Credits: 3
- ENVS 490 - Independent Study Credits: 1 to 3

Teacher Certification in Earth and Space Science

Requirements for the Certification

Teacher certification is earned through the master of education degree at Slippery Rock University. Students seeking secondary school teaching certification in earth and space science must earn a bachelor of arts or a bachelor of science degree in discipline and contact the Department of Secondary Education/Foundations of Education concerning its graduate program in education. Information about this program, including prerequisites for admission, may be obtained from the Secondary Education/Foundations of Education office in 114 McKay Education Building.

Mathematics & Statistics

200 Vincent Science Center
724-738-2061

Mathematics

The mission of the Mathematics Department at Slippery Rock University is focused on three areas:

1. To provide high quality programs to mathematics majors who plan to teach secondary mathematics, work in business or industry, or attend graduate school; to provide appropriate service courses for other programs; and to provide an exciting and relevant liberal studies experience for Slippery Rock students.
2. To expand the boundaries of mathematical knowledge and encourage and enable students to participate in scholarly research.
3. To provide service to the Slippery Rock University and wider communities.

Chair

Richard Marchand

Secretary

Debra Dickey

Faculty

Robert Buck, Michael Detlefsen, Jeffrey Forrest, Elise Grabner, Gary Grabner, Mohammad Ismail, William Lindgren, Richard Marchand, J. Lyn Miller, Gary Roberts, Andrzej Szymanski, Robert Vallin

"The mathematics department (faculty) was instrumental in providing a learning atmosphere conducive to my development as a student and an individual. They accomplished this by being professionals and friends, as well as professors. In addition to learning the technical concepts as a mathematics major at SRU, the most valuable tool that I've developed is being able to make decisions analytically with confidence, in my profession and in life."

Andrew Wozniak, '98

Students who have the desire and the ability to major in mathematics will find a course of study that will meet their personal needs. Graduates are prepared for various career opportunities including jobs in actuarial science, finance, business, insurance, government, statistics, industry, or education. Many students go on to do graduate work in various disciplines, including mathematics and professional schools.

SRU mathematics majors are employed in such diverse occupations as operations research analyst, consulting actuary, university professor, engineer, statistician, information analyst, auditor, international account executive, senior computer analyst, senior commercial loan officer, manager of performance monitoring, and teaching in both the private and public sectors.

Mathematics majors at Slippery Rock have the opportunity to participate in the Math Club and to join Kappa Mu Epsilon, a national mathematics honorary. Majors participate in senior research projects directed by faculty members. Math majors have attended and given presentations on their projects at national meetings of the Mathematical Association of America; meetings of the Allegheny Mountain Section of the Mathematical Association of America; the annual Mathematics and Statistics Student conference at Miami University of Ohio; the annual Pi Mu Epsilon meeting at Youngstown State University, and the annual State System of Higher Education Mathematical Association meeting. There are two or three students doing informal, paid internships in actuarial science and/or statistics each summer.

The Mathematics Department offers minors in Mathematics, Statistics, Actuarial Studies, Elementary School Mathematics, and Middle School Mathematics. Certificates* are available in Elementary School Mathematics and Middle School Mathematics. The department also offers a Certificate in Statistical Applications.

* This is not related to Pennsylvania State Certification.

Mathematics (BS)

Mathematics Department

Students seeking state certification in secondary education must also complete requirements for a Master of Education degree, a one-year program at SRU. All of our programs are designed to steadily develop the quantitative, deductive and inductive reasoning skills that mathematicians must have.

College-Wide Requirements:

- CHEM 107 - General Chemistry I Credits: 3
- CHEM 111 - General Chemistry I Lab Credits: 1
- MATH 225 - Calculus I Credits: 4
(* see footnote)
- PHYS 211 - General Physics I/ Lab Credits: 4

Requirements for the Major - Credits: 60

Mathematics Core Courses - Credits: 30

Minimum grade of "C" required in MATH 131, 230, and 235 prior to 300-400 level courses.

- MATH 131 - Discrete Mathematics Credits: 3
(* see footnote)
- MATH 230 - Calculus II Credits: 4
(* see footnote)
- MATH 231 - Calculus III Credits: 4
- MATH 235 - Foundations of Mathematical Proof Credits: 3
(* see footnote)
- MATH 301 - Differential Equations I Credits: 3
- MATH 309 - Linear Algebra Credits: 3
- MATH 313 - Introductory Analysis I Credits: 3
- MATH 325 - Abstract Algebra I Credits: 3
- MATH 491 - Mathematics Seminar Credits: 1
- STAT 352 - Mathematical Statistics I Credits: 3

Required Electives - Credits: 15

At least 15 additional credits are required, at most 3 credits at 200 level, others 300 level or above (MATH 210, 225, 310, STAT 350 may NOT be used).

- MATH or STAT _____ Credits: 3
- MATH or STAT _____ Credits: 3
- MATH or STAT _____ Credits: 3
- MATH or STAT _____ Credits: 3
- MATH or STAT _____ Credits: 3

Mathematics Sequences - TWO sequences required.

Choose at least one from MATH 313-314 or MATH 325-326. Credits earned from these courses will be applied to above requirements.

- MATH 301-302 Differential Equations I & II
- MATH 301-411 Differential Equations I & Partial Differential Equations
- MATH 311-312 Deterministic Models of Operations Research & Stochastic Models of Operations Research
- MATH 313-314 Introductory Analysis I & II
- MATH 325-326 Abstract Algebra I & II
- STAT 352-353 Mathematical Statistics I & II

Approved Minors: Complete at least ONE of the following minors.

Must complete at least 15 credits distinct from courses selected above (MATH 225 will not count as a distinct course).

- Minor in Actuarial Science
- Minor in Biology
- Minor in Chemistry
- Minor in Computing
- Minor in Environmental Science
- Minor in Geology

- Minor in Geophysics
- Minor in Meteorology
- Minor in Philosophy
- Minor in Physics
- Minor in Psychology
- Minor in Public Health
- Minor in Secondary School Mathematics
- Minor in Statistics

Footnote

* Minimum grade of C required.

Residency Requirement for Mathematics Majors

To earn a Bachelor of Science or Bachelor of Arts degree in mathematics, all students must complete a minimum of 12 credit hours of mathematics courses at the 300 level or above at Slippery Rock University.

Minor in Actuarial Science

Mathematics Department

To earn a minor in Actuarial Studies, at least 9 credit hours of mathematics courses used for a minor must be taken at Slippery Rock University. Students must also complete requirements for Society of Actuaries VEE credit in at least two areas.

The Mathematics Minor in Actuarial Studies prepares you to sit for professional examinations, which may be required for employment. Professional licensure/certification requirements vary by state. You are urged to check with your state licensing board.

Minor Requirement - Credits: 24

Required Courses - Credits: 9

- MATH 280 - Theory of Interest Credits: 3
- STAT 352 - Mathematical Statistics I Credits: 3
- STAT 353 - Mathematical Statistics II Credits: 3

Required Courses for non-mathematics majors - Credits: 8

Math majors may NOT count these courses in the Actuarial Studies minor

- MATH 225 - Calculus I Credits: 4

- MATH 230 - Calculus II Credits: 4

Electives - Credits: 7-15

Choose courses below to reach 24 credits total for this minor

ACCT 209, ACCT 210, ECON 201, and ECON 202 may not be used by students from the School of Business

MATH 231 may not be used by Mathematics majors.

- ACCT 209 - Financial Accounting Credits: 3
- ACCT 210 - Managerial Accounting Credits: 3
- CPSC 323 - Fundamentals of Database Systems Credits: 3
- CPSC 358 - Simulation Credits: 3
- ECON 201 - Principles of Macroeconomics Credits: 3
- ECON 202 - Principles of Microeconomics Credits: 3
- ECON 301 - Macroeconomic Analysis Credits: 3
- ECON 302 - Microeconomic Analysis Credits: 3
- ECON 312 - Critical Choices in Health Care Policy Credits: 3
- ECON 318 - Intermediate Statistical Analysis Credits: 3
- ENGL 205 - Introduction to Professional Writing Credits: 3
- ENGL 309 - Advanced Professional Writing Credits: 3
- FIN 320 - Managerial Finance Credits: 3
- FIN 321 - Investments Credits: 3
- FIN 323 - Financial Markets and Institutions Credits: 3
- FIN 326 - Intermediate Corporate Finance Credits: 3
- FIN 329 - Principles of Insurance Credits: 3
- MATH 231 - Calculus III Credits: 4
- STAT 252 - Introduction to Statistical Modeling Credits: 3
- STAT 254 - Nonparametric Statistics Credits: 3
- STAT 256 - Statistical Computing Credits: 3
- MATH 311 - Deterministic Models of Operations Research Credits: 3
- MATH 315 - Numerical Mathematics Credits: 3
- MATH 335 - Mathematical Modeling Credits: 3
- STAT 354 - Mathematical Statistics III Credits: 3
- MATH 482 - Actuarial Mathematics Credits: 3
- MATH 484 - Life Contingencies Credits: 3

Minor in Elementary School Mathematics

Mathematics Department

To earn a minor in Elementary School Mathematics, at least nine credit hours of mathematics courses used for the Elementary School Mathematics minor must be taken at Slippery Rock University. Note: Some of these courses have prerequisites that must be met.

Requirements for the Minor - Credits: 21

Required Mathematics Courses - Credits: 12

- MATH 118 - Elementary Geometry Credits: 3
- MATH 210 - Elementary Mathematics I Credits: 3
- MATH 310 - Elementary Mathematics II Credits: 3
- ELEC 340 - Mathematics Methods and Strategies for PRE K - 4 Teachers Credits: 3

Three Additional Courses - Credits: 9

- MATH 113 - Mathematics as a Liberal Art Credits: 3
- MATH 115 - Financial Mathematics Credits: 3
- MATH 122 - Finite Mathematics with Matrices Credits: 3
- MATH 125 - Precalculus Credits: 4
- MATH 131 - Discrete Mathematics Credits: 3
- STAT 152 - Elementary Statistics I Credits: 3
- STAT 153 - Elementary Statistics II Credits: 3
- STAT 252 - Introduction to Statistical Modeling Credits: 3

Minor in Mathematics

Mathematics Department

To earn a Minor in Mathematics, at least nine credit hours of mathematics courses used for the mathematics minor must be taken at Slippery Rock University.

Requirements for the Minor - Credits: 21

Required Mathematics Courses - Credits: 12

- MATH 225 - Calculus I Credits: 4
- MATH 230 - Calculus II Credits: 4
- MATH 231 - Calculus III Credits: 4

Choose three additional courses - Credits: 9

Note: In all students' programs, MATH 331 may be counted as a mathematics course or as a physics course, but not both.

- MATH 235 - Foundations of Mathematical Proof Credits: 3
- MATH 240 - Linear Algebra and Differential Equations Credits: 3
- MATH 301 - Differential Equations I Credits: 3

- MATH 302 - Differential Equations II Credits: 3
- MATH 304 - Geometric Structures Credits: 3
- MATH 309 - Linear Algebra Credits: 3
- MATH 311 - Deterministic Models of Operations Research Credits: 3
- MATH 313 - Introductory Analysis I Credits: 3
- MATH 314 - Introductory Analysis II Credits: 3
- MATH 315 - Numerical Mathematics Credits: 3
- MATH 320 - Theory of Numbers Credits: 3
- MATH 325 - Abstract Algebra I Credits: 3
- MATH 326 - Abstract Algebra II Credits: 3
- MATH 331 - Mathematical Methods of Physics Credits: 3
- MATH 335 - Mathematical Modeling Credits: 3
- STAT 352 - Mathematical Statistics I Credits: 3

Residency Requirement for Minor in Mathematics

To earn a minor in mathematics, all students must complete a minimum of 9 credit hours of mathematics courses, of which 6 credit hours must be at the 300 level or above and at Slippery Rock University.

Minor in Middle School Mathematics

Mathematics Department

To earn a minor in Middle School Mathematics, at least nine credit hours of mathematics courses used for the minor must be taken at Slippery Rock University. Note: Some of these courses have prerequisites that must be met.

All course selections must be approved by the Mathematics Department since some courses may not be used by certain majors.

Note:

- MATH 131, 225, 230, 231, 235, 240, 304, 309, 320 and 325 may not be used by Mathematics majors as courses that count toward the Middle School Mathematics minor.
- MATH 118, 131, 225, and STAT 152 may not be used by Middle Level Mathematics majors as courses that count toward the Middle School Mathematics minor.

Requirements for the Minor - Credits: 22

Required Math Courses - Credits: 12

- MATH 118 - Elementary Geometry Credits: 3
OR
- MATH 304 - Geometric Structures Credits: 3

- MATH 210 - Elementary Mathematics I Credits: 3
- MATH 310 - Elementary Mathematics II Credits: 3
- SEFE 311 - Teaching of Mathematics in the Middle School Credits: 3

Three Additional Courses - Credits: 10

Choose from the following:

- MATH 113 - Mathematics as a Liberal Art Credits: 3
- MATH 122 - Finite Mathematics with Matrices Credits: 3
- MATH 131 - Discrete Mathematics Credits: 3
- STAT 152 - Elementary Statistics I Credits: 3
- STAT 153 - Elementary Statistics II Credits: 3
- MATH 225 - Calculus I Credits: 4
- MATH 230 - Calculus II Credits: 4
- MATH 231 - Calculus III Credits: 4
- MATH 235 - Foundations of Mathematical Proof Credits: 3
- MATH 240 - Linear Algebra and Differential Equations Credits: 3
- STAT 252 - Introduction to Statistical Modeling Credits: 3
- MATH 309 - Linear Algebra Credits: 3
- MATH 311 - Deterministic Models of Operations Research Credits: 3
- MATH 320 - Theory of Numbers Credits: 3
- MATH 325 - Abstract Algebra I Credits: 3

Minor in Secondary School Mathematics

Mathematics Department

Select 24 credits below. At least six credits must be 300-level or higher. At least nine credit hours of mathematics courses used for the minor must be taken at Slippery Rock University.

NOTE: Some courses have prerequisites that must be met.

NOTE: BS-Mathematics majors must choose at least 15 credits distinct from those being counted toward major.

Requirements for the Minor - Credits: 24

Required Courses - Credits: 15

- MATH 235 - Foundations of Mathematical Proof Credits: 3
- MATH 304 - Geometric Structures Credits: 3
- MATH 320 - Theory of Numbers Credits: 3
- SEFE 338 - Standards-Based Instruction & Assessment in the Inclusionary Classroom Credits: 3
- SPED 121 - High Incidence Disabilities Credits: 3

Nine Additional Credits Chosen From:

- MATH 230 - Calculus II Credits: 4 *
- MATH 231 - Calculus III Credits: 4 *
- STAT 153 - Elementary Statistics II Credits: 3
- STAT 252 - Introduction to Statistical Modeling Credits: 3
- SEFE 230 - Production and Utilization of Instructional Technology Credits: 3
- SEFE 245 - Middle Level Learning Theory Credits: 3
- SEFE 250 - Pre, Early, & Adolescent Development Credits: 3
- SEFE 300 - Middle Level Cognitive Development Credits: 3
- SEFE 311 - Teaching of Mathematics in the Middle School Credits: 3
- SEFE 326 - ELL Strategies and Practice Credits: 3
- SEFE 342 - Educational Psychology for Diverse Learners Credits: 3
- SEFE 370 - Educational Measurements, Assessment and Evaluation Credits: 3
- SEFE 380 - History and Philosophy of Education Credits: 3
- PHIL 313 - Symbolic Logic Credits: 3
- PHIL 351 - Philosophy of Natural Science Credits: 3

* May not be used by mathematics majors

Minor in Statistics

Mathematics Department

To earn a Minor in Statistics, at least nine credit hours of the mathematics courses used for the statistics minor must be taken at Slippery Rock University. Some of these courses have prerequisites that must be met. In particular, Mathematical Statistics I/II have Calculus II as a prerequisite.

Requirements for the Minor - Credits: 24

Required Courses - Credits: 15

- STAT 152 - Elementary Statistics I Credits: 3
- STAT 153 - Elementary Statistics II Credits: 3
- STAT 252 - Introduction to Statistical Modeling Credits: 3
- STAT 352 - Mathematical Statistics I Credits: 3
- STAT 353 - Mathematical Statistics II Credits: 3

Required courses for non-mathematics majors - Credits:8

Mathematics majors may NOT count these courses in the Minor in Statistics

- MATH 225 - Calculus I Credits: 4
- MATH 230 - Calculus II Credits: 4

Choose courses from this list to reach 24 total credits-Credits:3-9

Choose courses from this list to reach 24 credits total for this minor (3-9 credits)

MATH 231 may not be used by Mathematics major as a course that counts toward the Statistics Minor.

- BIOL 325 - Biometry / Lab Credits: 3
- CPSC 323 - Fundamentals of Database Systems Credits: 3
- CPSC 358 - Simulation Credits: 3
- ECON 318 - Intermediate Statistical Analysis Credits: 3
- HLTH 312 - Data Management for Health Science Credits: 3
- HLTH 313 - Biostatistics Credits: 3
- MATH 231 - Calculus III Credits: 4
- STAT 254 - Nonparametric Statistics Credits: 3
- STAT 256 - Statistical Computing Credits: 3
- STAT 354 - Mathematical Statistics III Credits: 3
- PSYC 421 - Advanced Behavioral Statistics Credits: 3

Teacher Certification in Mathematics

Requirements for the Certification

Secondary teacher certification in some fields is earned through the master of education degree at Slippery Rock University. Students seeking secondary school teaching certification in mathematics must earn a bachelor of arts or a bachelor of science degree in mathematics and contact the Department of Secondary Education/Foundations of Education concerning its graduate program in education. Information about this program, including prerequisites for admission, may be obtained from the secondary education/foundations of education office in 114 McKay Education Building.

Natural Sciences & Mathematics

Courses team taught by different departments.

Nursing

104 Vincent Science Center
724-738-2065

Nursing

The Department of Nursing offers two totally online programs: RN to BSN Completion Program and School Nursing Certificate Program. The RN to BSN Completion Program at Slippery Rock University leads to a bachelor of science in nursing. It is designed to meet the needs of Registered Nurses who are graduates of hospital diploma nursing programs or Associate Degree programs in nursing.

The purpose of the RN-BSN program is to prepare baccalaureate educated practitioners of nursing to provide clinical leadership in the provision of health care to persons, families, and groups in a variety of settings. The program provides

a strong educational foundation upon which to build graduate study. The purpose of the School Nurse Certificate program is to prepare students for Level I certification with the Pennsylvania Department of Education.

Chair

Mary Ann Thurkettle PhD, RN

Secretary

Tanya Turner

Faculty

Michele Crytzer, Diana Jones, , Sandra Leh, Christina Silva, Mary Ann Thurkettle

This program is designed to meet the needs of registered nurses who are graduates of hospital diploma nursing programs or associate degree programs in nursing. The nursing curriculum includes theoretical content. The flexibility of the program enables the registered nurse to attend school on a part-time or full-time basis. The purpose of the program is to prepare practitioners of nursing to provide clinical leadership in the provision of health care to persons, families, and groups in a variety of settings, using the nursing process. The program provides a strong educational foundation upon which to build graduate study. The program is accredited by the Accreditation Commission on Collegiate Nursing Education (CCNE).

Admission requirements include: transfer in of 63 or more non-remedial completed college credits, and active unrestricted Registered Nurse license, and a 2.5 QPA in previous academic work. The curriculum for the program includes: nine (27 credits) of core nursing courses, two (6 credits) courses of nursing electives, and two (6 credits) of required supportive courses. All program courses are available online. Students in the RN-BSN upper division nursing program are required to maintain the 2.500 GPA throughout the nursing program from entry to exit. The students must have and maintain BOTH the cumulative 2.500 GPA and the nursing major 2.500 GPA. Other minors can also be pursued while enrolled in the BSN program.

Nursing (BSN) - Online Degree Completion Program

Nursing Department

The Bachelor of Science in Nursing program is a fully CCNE accredited **ONLINE DEGREE COMPLETION PROGRAM** for nurses, **WHO ALREADY HOLD RN LICENSURE**. In the program, students develop critical thinking skills for clinical decision-making, prepare to collaborate in multidisciplinary work, shift focus from care of individuals within a community to the health of a community, refine professional communication, and develop leadership skills. The curriculum provides a strong foundation for professional development in a nursing career and the opportunity to gain the knowledge and skills needed for advancement in clinical ladder programs. Students also develop the team skills and technological ability to provide leadership in managed care environments.

This program meets the requirements for certification in Pennsylvania. As regulations vary by state, please check the licensing board in your state.

Admission requirements for this program are as follows:

- The applicant must hold an RN associate or diploma degree in Nursing
- The applicant must hold an unencumbered current RN licensure
- The applicant must have completed 63 or more transferable credits
- The applicant must have a 2.5 or higher RN program GPA
- The applicant must be in good academic standing at the most recent institution attended

Requirements for the Major - Credits: 30

Required Supportive Coursework - Credits: 6

- PHIL 325 - Medical/Health Care Ethics Credits: 3
- INDP 317 - Statistics for the Social Sciences Credits: 3

Required Clinical Requirement

- NURS 199 Current licensure as a Registered Nurse

Required Nursing Courses - Credits: 21

- NURS 311 - Introduction to Health Care Informatics Credits: 3
- NURS 312 - Nursing in Transition Credits: 3
- NURS 331 - Evidence Based Health Assessment and Promotion Credits: 3
- NURS 422 - Nursing Research Credits: 3
- NURS 426 - Community and Public Health Nursing Credits: 3
- NURS 431 - Leadership and Management in Nursing Credits: 4
- NURS 432 - Practice Experience for Leadership and Management in Nursing Credits: 2

Nursing Electives - Credits: 3

3 credits from the following:

- NURS 322 - The Teaching-Learning Process in Nursing Credits: 3
- NURS 327 - Group Process for Nursing Credits: 3
- NURS 395 - Workshop Credits: 1 to 3
- NURS 406 - Politics and Policy in Nursing Credits: 3
- NURS 408 - Delivery of Nursing Care in a Managed Care Environment/Clinical Credits: 3
- NURS 429 - Financial Management for Nursing Case Managers Credits: 3
- NURS 430 - Leadership in Nursing and Healthcare Systems Credits: 3
- NURS 433 - Innovative Technology for Healthy Communities Credits: 3
- NURS 440 - Nursing Case Management in Today's Healthcare Environment Credits: 3
- NURS 498 - Selected Topics Credits: 3
- NURS 500 - Developing Transcultural Awareness Among Health Professionals Credits: 3
- NURS 510 - Cardiovascular Function: Assessment and Treatment Credits: 3
- NURS 511 - Advanced Healthcare Informatics Credits: 3
- NURS 595 - Workshop Credits: 3

Degree Completion in Two Years

Total of 30 credits of Nursing and support credits are possible to be taken within a two year period of time. There is no statute of limitation, so courses can be taken as a part-time or full-time load.

Academic Standing

Students applying to the RN to BSN upper division nursing program are required to have a minimum of 2.5 GPA for admission.

Students in the RN to BSN program must maintain a 2.5 GPA throughout the nursing program. The students must have and maintain BOTH the cumulative and the Nursing major 2.5 GPA.

BSN majors must attain a grade of C or better in all nursing major courses. In the event that a final course grade of C is not attained, the course may be repeated one time. Failure to achieve the required grade on the second attempt will result in the removal of the student from the nursing major.

Parks, Conservation and Recreational Therapy

Office: 102 Patterson Hall
Phone: 724-738-2068

Parks, Conservation and Recreational Therapy (PCRT)

The Department of Parks, Conservation and Recreational Therapy offers degree programs leading to the Bachelor of Science in Parks and Resource Management and a Bachelor of Science in Recreational Therapy.

The Department cooperates closely with a number of government and private agencies and organizations in an effort to provide quality academic and practical experiences. Cooperative agreements with a variety of parks, recreation, environment, and health-related agencies provide ample opportunities for students to acquire a sound base in the practical application of theory, knowledge, and skills provided in the classroom.

Graduates of the programs are currently employed in positions within the park and recreation fields. Many are serving as recreation therapists, park managers and superintendents, national and state park rangers, outdoor recreation planners, environmental educators, nature and history interpreters, and other similar positions.

The mission of the Park Resource Management program is to provide students with the knowledge, skills, and abilities to function as park and resource management professionals for a variety of federal, state, local, and private agencies and organizations. The broad-based program approach provides study in natural history and ecology, natural systems management, cultural resource management, and contemporary issues in parks, recreation, and resource management. Coursework focused on administrative, interpretive, and sustainable planning aspects of park and recreation is also featured.

The mission of the Recreational Therapy program is to offer a quality undergraduate curriculum that prepares students for current entry-level practice in a variety of health and human service settings. The emphasis is on recreational therapy as a means to restore, remediate and/or rehabilitate individuals with a diversity of disorders/disabilities. The program integrates coursework, practical experiences, and professional activities as a foundation for the development of competent professionals.

All majors must qualify for department advanced standing prior to enrollment in Internship (PCRM 450, RCTH 450).

Chair

Deborah Hutchins

Secretary

Melanie Bell

Faculty

Whitney Angelini, Heather Bright, Jennifer Carben, Colleen Cooke, Shawn Davis, Deborah Hutchins, Christopher Leininger, John Lisco, Rebecca Thomas

Minor in Animal-Assisted Interventions

Animals play an important role in promoting human health and well-being. The human-animal bond (HAB) is known to promote a variety of physiological, emotional and social benefits. In addition, interventions utilizing animals have produced recognized benefits for individuals with a variety of disabling conditions. The Animal-Assisted Intervention Minor uses an interdisciplinary approach for students to develop the competencies for using animal-assisted interventions in their professional practice. This minor would be especially appropriate for students enrolled in a health-related, human service, or educational major.

Minor in Animal-Assisted Interventions - Credits: 18

Required Core Courses - Credits: 12

- RCTH 305 - Animal-Assisted Therapy for Diverse Populations & Settings Credits: 3
- SOWK 300 - Crisis Intervention Credits: 3
- SOWK 310 - Animal Assisted Interventions Credits: 3
- RCTH 252 - Equine Assisted Activities Credits: 3
- OR
- PE 250 - Equine Assisted Activities Credits: 3

Professional Electives - Credits: 6

- SOWK 328 - Human Behavior and the Social Environment I Credits: 3
- SOWK 334 - Clinical Perspectives on DSM Diagnoses Credits: 3
- RCTH 232 - Recreational Therapy for People with Physical Disabilities Credits: 3
- RCTH 233 - Recreational Therapy for People with Psychosocial and Mental Disorders Credits: 3
- RCTH 420 - Recreational Therapy for Older Adults Credits: 3
- GERO 265 - Aging and the Older Person Credits: 3
- GERO 414 - Death and Dying Credits: 3
- PSYC 276 - Introduction to Abnormal Psychology Credits: 3
- PSYC 244 - Developmental Psychology Credits: 3
- PSYC 303 - Learning Credits: 4
- OR
- PSYC 475 - Behavior Modification Credits: 3

Minor in Environmental Communication and Heritage Interpretation

Minor Requirements - Credits: 21

Required Core Courses - Credits: 9

- COMM 231 - Introduction to Public Relations and IMC Credits: 3

- COMM 204 - Environmental Communication Credits: 3
OR
- PCRM 204 - Environmental Communication Credits: 3
- PCRM 347 - Interpretive Methods and Programming Credits: 3

Strategies Electives - Credits: 6

One course must be COMM.

- CDEV 248 - Human Development and Education Credits: 3
- COMM 254 - Video Production Credits: 3
- COMM 307 - Social Media Credits: 3
- HIST 343 - Public History Credits: 3
- HIST 411 - Digital History Credits: 3
- PCRM 210 - Resources for Outdoor Programming Credits: 3

Content Electives - Credits: 6

- BIOL 105 - Environmental Biology Credits: 3
- EGEO 100 - Environmental Geology Credits: 3
- EGEO 121 - Meteorology/Lab Credits: 4
- EGEO 131 - Oceanography Credits: 3
- GES 135 - Introduction to Environmental Problems Credits: 3
- GES 150 - The Natural Environment Credits: 3
- GES 355 - Earth's Changing Climate Credits: 3
- HIST 323 - African American History to 1876 Credits: 3
- HIST 324 - African American History Since 1876 Credits: 3
- HIST 326 - The Long Civil Rights Movement Credits: 3
- HIST 337 - Native American History Credits: 3
- HIST 347 - Twentieth Century British Culture Credits: 3
- HIST 350 - The American Civil War Credits: 3
- HIST 371 - History of Jews Credits: 3
- HIST 445 - Americans and the Environment Credits: 3
- PCRM 348 - Natural History of Ecosystems I Credits: 3
- PCRM 377 - Cultural Resources Management Credits: 3

Minor in Recreational Therapy - Credits: 24

Parks and Recreation

The Recreational Therapy course work provides students with direct experiences in assessment, planning, implementing, and evaluating programs to meet the needs of individuals from various populations including people with disabilities, adolescents at risk, and older adults. In the Department of Parks and Recreation, this minor would provide students with more experiences and skills in serving people with disabilities in health and human service agencies and in the community.

Required Courses - Credits: 21

- RCTH 120 - Inclusive Leisure Services Credits: 3
- RCTH 220 - Recreational Therapy Services Credits: 3
- RCTH 314 - Clinical Aspects of Recreational Therapy Credits: 3
- RCTH 319 - Client Assessment in Recreational Therapy Credits: 3
- RCTH 320 - Recreational Therapy Program Design Credits: 3
- RCTH 351 - Recreational Therapy Practicum Credits: 3
- RCTH 423 - Recreational Therapy Interventions II Credits: 3

Select one of the following courses - Credits: 3

- RCTH 232 - Recreational Therapy for People with Physical Disabilities Credits: 3
- RCTH 233 - Recreational Therapy for People with Psychosocial and Mental Disorders Credits: 3
- RCTH 420 - Recreational Therapy for Older Adults Credits: 3

Parks & Recreation (BS) - Park Resource Management

Parks and Recreation

Some states, including Pennsylvania, offer certification through the North American Association for Environmental Education (NAAEE). While certification is not required; it can advance your career. In Pennsylvania, the requirements include, but are not limited to: a passing score on the Environmental Literacy Test, work portfolio, and attendance at a EE Certification Workshop. Requirements vary by state, so please visit the NAAEE state affiliate where you work.

Major Requirements - Credits: 57

GPA Requirement

- 2.75 or higher Major GPA
- 2.25 or higher Overall GPA

Park and Resource Management Requirements: Credits - 42

- PCRM 110 - Foundations of Parks and Recreation Credits: 3
- PCRM 111 - Introduction to Park and Resource Management Credits: 3
- PCRM 214 - Parks and Recreation Planning Credits: 3
- PCRM 304 - Search and Rescue/Wilderness Medicine Credits: 3
- PCRM 315 - Recreation Resource Planning and Analysis Credits: 3
- PCRM 318 - Administrative Strategies for Resource Managers Credits: 3
- PCRM 347 - Interpretive Methods and Programming Credits: 3
- PCRM 348 - Natural History of Ecosystems I Credits: 3
- PCRM 349 - Natural History of Ecosystems II Credits: 3
- PCRM 351 - Parks and Conservation Practicum Credits: 3
- PCRM 377 - Cultural Resources Management Credits: 3
- PCRM 415 - Challenges and Trends in Parks and Conservation Credits: 3
- PCRM 475 - Park and Resource Management Credits: 3

- PCRM 477 - Wildlife & Wildlands Field Methods and Management Credits: 3

Required Internship: Credits - 12

- PCRM 450 - Internship Credits: 12
Internship in PKRC

Required Support Courses: Credits - 3

- GES 115 - Introduction to Geospatial Technologies Credits: 3

Recreational Therapy (BS)

Parks and Recreation

Recreational therapists use selective activities to address the physical, cognitive, and psychosocial needs of persons with illness or disability. Activity modalities and intervention techniques are utilized to improve function/health and to promote independence and wellness.

The bachelor of science degree emphasis in recreational therapy supplements a solid liberal studies foundation with course work related to human development/growth and movement. Field work, practicum, and a culminating internship assist students in gaining experience in a RT setting prior to graduation. In addition, students may choose from several specialty tracks which offer focused coursework to enhance knowledge and skills in a given area, i.e., mental health, rehabilitation, corrections, gerontology, and community. Minors are also available in related areas such as gerontology, exceptionalities, psychology, sociology, and adapted physical activity and animal-assisted interventions.

The recreational therapy program is designed so that students will meet the eligibility requirements to sit for the national certification exam administered by the National Council for Therapeutic Recreation Certification (NCTRC). Some states, including Pennsylvania, offer certification through the North American Association for Environmental Education (NAAEE). While certification is not required; it can advance your career. In Pennsylvania, the requirements include, but are not limited to: a passing score on the Environmental Literacy Test, work portfolio, and attendance at a EE Certification Workshop. Requirements vary by state, so please visit the NAAEE state affiliate where you work.

Major Requirements - Credits: 60

Recreational Therapy Requirements - Credits: 51

Must earn a "C" or better in all of the following RCTH courses

- RCTH 120 - Inclusive Leisure Services Credits: 3
- RCTH 220 - Recreational Therapy Services Credits: 3
- RCTH 232 - Recreational Therapy for People with Physical Disabilities Credits: 3
- RCTH 233 - Recreational Therapy for People with Psychosocial and Mental Disorders Credits: 3
- RCTH 314 - Clinical Aspects of Recreational Therapy Credits: 3
- RCTH 317 - Organization and Management of Recreational Therapy Practice Credits: 3
- RCTH 319 - Client Assessment in Recreational Therapy Credits: 3
- RCTH 320 - Recreational Therapy Program Design Credits: 3

- RCTH 351 - Recreational Therapy Practicum Credits: 3
- RCTH 415 - Challenges and Trends in Recreational Therapy Credits: 3
- RCTH 420 - Recreational Therapy for Older Adults Credits: 3
- RCTH 422 - Recreational Therapy Interventions I Credits: 3
- RCTH 423 - Recreational Therapy Interventions II Credits: 3
- RCTH 450 - Internship Credits: 12
Evidence of current First Aid & CPR certification must be provided prior to enrollment in RCTH 450 Internship

Required Recreational Therapy Courses from Other Departments - Credits: 9

- PE 360 - Anatomical and Physiological Bases of Physical Activity Credits: 3
- PE 364 - Biomechanics of Individuals with Disabilities Credits: 3
- PSYC 244 - Developmental Psychology Credits: 3

Professional Electives - Credits: 12

- PHIL 325 - Medical/Health Care Ethics Credits: 3
- PSYC 105 - Introduction to Psychology Credits: 3
- PSYC 276 - Introduction to Abnormal Psychology Credits: 3
- Approved Professional Elective - Credits: 3

NCTRC Certification Requirements - Credits: 18

Courses required of NCTRC Certification are already counted within Professional Electives and Required Recreational Therapy Courses.

- PE 360 - Anatomical and Physiological Bases of Physical Activity Credits: 3
- PE 364 - Biomechanics of Individuals with Disabilities Credits: 3
- PHIL 325 - Medical/Health Care Ethics Credits: 3
- PSYC 105 - Introduction to Psychology Credits: 3
- PSYC 276 - Introduction to Abnormal Psychology Credits: 3
- PSYC 244 - Developmental Psychology Credits: 3

Recreational Therapy (BS) - Physical Therapy 3+3

Parks & Recreation Environmental Education

The Recreational Therapy Program offers a Pre-Physical Therapy 3+3 option for students interested in a career as a Physical Therapist. Undergraduate students work with their academic advisor to complete the courses needed to fulfill the requirements for both an undergraduate degree and the admissions requirements for the Doctor of Physical Therapy program.

The first year of the Doctor of Physical Therapy program meets the requirements for the fourth year of the undergraduate degree. Approved undergraduate majors in **Biology, Exercise Science, and Health Science-Public Health** are also available for the Pre-Physical Therapy 3+3 option. Other majors can be used to pursue the Doctor of

Physical Therapy, but students cannot apply until after completing their undergraduate degree and they, too, must meet all Doctor of Physical Therapy admission criteria.

SLIPPERY ROCK UNIVERSITY PRE-PHYSICAL THERAPY 3+3 REQUIREMENTS

If any of these requirements are not met, the 3+3 designation will be removed from the student's record:

1. A 3.0 or higher overall GPA must be maintained by the student.
2. The student can only be enrolled in the Pre-Physical Therapy 3+3 program for a maximum of three (3) years, full-time continuous enrollment (fall/spring).

Provision for Slippery Rock Pre-PHYSICAL THERAPY 3+3 Students entering the Doctor of Physical Therapy program:

Should a Pre-Physical Therapy 3+3 student be unsuccessful in completing the 1st year (any of summer, fall, or spring terms) of the Doctor of Physical Therapy program and wants to complete the original undergraduate degree, it is solely up to the discretion of the undergraduate program Department Chair to determine which, if any, Physical Therapy courses will count toward the completion of his/her undergraduate degree. In addition, students must complete any unfulfilled requirements of their undergraduate major. Students may still apply to the Doctor of Physical Therapy program with an earned Bachelor's degree.

For application requirements, please refer to Slippery Rock University's Doctor of Physical Therapy program website.

Required Course - Credits: 3

- PSYC 105 - Introduction to Psychology Credits: 3

Required Science, Technology and Math Courses - Credits: 25

- CHEM 107 - General Chemistry I Credits: 3
- CHEM 108 - General Chemistry II Credits: 3
- CHEM 111 - General Chemistry I Lab Credits: 1
- CHEM 112 - General Chemistry II Lab Credits: 1
- BIOL 216 - Anatomy and Physiology I /Lab Credits: 3
- BIOL 217 - Anatomy and Physiology II/Lab Credits: 3
- PHYS 201 - Elements of Physics I/ Lab Credits: 4
- PHYS 202 - Elements of Physics II/ Lab Credits: 4
- STAT 152 - Elementary Statistics I Credits: 3

Other Required Courses - Credits: 15

- PHIL 325 - Medical/Health Care Ethics Credits: 3
- PSYC 276 - Introduction to Abnormal Psychology Credits: 3
- PSYC 244 - Developmental Psychology Credits: 3
- PE 360 - Anatomical and Physiological Bases of Physical Activity Credits: 3
- PE 364 - Biomechanics of Individuals with Disabilities Credits: 3

Required Therapeutic Recreation Core Courses - Credits: 21

Evidence of current First Aid & CPR certification must be provided prior to enrollment in RCTH 450, Internship.

- PCRM 318 - Administrative Strategies for Resource Managers Credits: 3
- RCTH 120 - Inclusive Leisure Services Credits: 3
- RCTH 415 - Challenges and Trends in Recreational Therapy Credits: 3
- RCTH 450 - Internship Credits: 12

Therapeutic Recreation Required Courses - Credits: 30

- RCTH 220 - Recreational Therapy Services Credits: 3
- RCTH 232 - Recreational Therapy for People with Physical Disabilities Credits: 3
- RCTH 233 - Recreational Therapy for People with Psychosocial and Mental Disorders Credits: 3
- RCTH 314 - Clinical Aspects of Recreational Therapy Credits: 3
- RCTH 319 - Client Assessment in Recreational Therapy Credits: 3
- RCTH 320 - Recreational Therapy Program Design Credits: 3
- RCTH 351 - Recreational Therapy Practicum Credits: 3
- RCTH 422 - Recreational Therapy Interventions I Credits: 3
- RCTH 423 - Recreational Therapy Interventions II Credits: 3

Certification Requirements - Credits: 15

Check with your academic adviser / department regarding certification requirements.

Recreational Therapy (BS) - Pre-Occupational Therapy 3+3

Major Requirements - Credits: 51

Recreational Therapy Courses - Credits: 51

Must earn a "C" or better in all of the following RCTH courses:

- RCTH 120 - Inclusive Leisure Services Credits: 3
- RCTH 220 - Recreational Therapy Services Credits: 3
- RCTH 232 - Recreational Therapy for People with Physical Disabilities Credits: 3
- RCTH 233 - Recreational Therapy for People with Psychosocial and Mental Disorders Credits: 3
- RCTH 314 - Clinical Aspects of Recreational Therapy Credits: 3
- RCTH 317 - Organization and Management of Recreational Therapy Practice Credits: 3
- RCTH 319 - Client Assessment in Recreational Therapy Credits: 3
- RCTH 320 - Recreational Therapy Program Design Credits: 3
- RCTH 351 - Recreational Therapy Practicum Credits: 3
- RCTH 420 - Recreational Therapy for Older Adults Credits: 3
- RCTH 422 - Recreational Therapy Interventions I Credits: 3
- RCTH 450 - Internship Credits: 12

Required Recreational Therapy Courses from other departments and also Occupational Therapy Prerequisite Courses - Credits: 6

- PE 364 - Biomechanics of Individuals with Disabilities Credits: 3
- PSYC 276 - Introduction to Abnormal Psychology Credits: 3

NCTRC Certification Requirements - Credits: 18

Note: These courses must be completed by the student in order to be eligible to take the NCTRC Certification Exam.

- PE 360 - Anatomical and Physiological Bases of Physical Activity Credits: 3
- PE 364 - Biomechanics of Individuals with Disabilities Credits: 3
- PHIL 325 - Medical/Health Care Ethics Credits: 3
- PSYC 105 - Introduction to Psychology Credits: 3
- PSYC 244 - Developmental Psychology Credits: 3
- PSYC 276 - Introduction to Abnormal Psychology Credits: 3

Physics and Engineering

208 Vincent Science Center
724-738-2074

Physics

The mission of the Physics Department at Slippery Rock University is to service the Liberal Studies Program, provide content courses for other departments, and provide high-quality major and pre-engineering programs. The department is equally committed to each of these three areas and is actively involved in curriculum and program review on an ongoing basis. With regards to the Liberal Studies Program, the department aims to offer courses that complement the "Seven Critical Goals Towards Becoming an Educated Person." The department also offers many courses that provide basic and advanced content to students with other majors. Finally, the department aims to provide major programs that allow technical specialization and flexibility to its graduates. Many possible career options are available to physics majors; the department's curriculum provides the training necessary to many of these options.

Chair

Ben Shaevitz

Secretary

Cheryl Dolan

Faculty

Ben Shaevitz, Athula Herat, Rizwan Mahmood, Krishna Mukherjee, Manuel Valera

"SRU physics is a small department that offers infinite possibilities for achievement. The SRU Physics department infuses classical and modern theory with advanced and up-to-date experimentation and teaching tools. The faculty is small and very personal, offering guidance based on the student's learning abilities rather than from a "textbook" viewpoint. The faculty is knowledgeable in both subject content as well as information presentation. If you are a great science student, or you are learning about science for the first time, the SRU Physics department will guide you through an intricate, student-friendly web of lecture, problem solving, experimentation, data analysis, and research. Whether you are training to be the next Heisenberg or Einstein, the next great engineer, the next great high school teacher, or simply learning problem solving skills to use in any workplace, the SRU Physics department is a gateway to success."

-Stephen Murray
B.s in Physics, Pre-Master in Education

Civil Engineering (BS)

Major Requirements - Credits: 85

Required Engineering Courses - Credits: 69

- ENGR 110 - Introduction to Engineering Credits: 2
- ENGR 120 - Engineering Design Tools Credits: 2
- ENGR 130 - Engineering Computing Tools Credits: 2
- ENGR 210 - Statics Credits: 3
- ENGR 220 - Engineering Materials Credits: 3
- ENGR 230 - Mechanics of Materials Credits: 3
- ENGR 301 - Fluid Mechanics Credits: 3
- ENGR 340 - Engineering Economics Credits: 3
- ENGR xxx - Engineering Elective Credits: 3
- CIVL 210 - Elementary Survey Credits: 3
- CIVL 310 - Structural Engineering Credits: 4
- CIVL 320 - Transportation Engineering Credits: 3
- CIVL 330 - Environmental Engineering Credits: 4
- CIVL 340 - Geotechnical Engineering Credits: 3
- CIVL 350 - Water Resources Engineering Credits: 3
- CIVL 410 - Structural Steel Design Credits: 3
- CIVL 420 - Traffic Engineering Credits: 3
- CIVL 430 - Storm Water Management Credits: 3
- CE 4xx - Civil Engineering Elective Credits: 3
- CE 4xx - Civil Engineering Elective Credits: 3
- CE 4xx - Civil Engineering Elective Credits: 3
- CIVL 460 - Capstone Design I Credits: 3
- CIVL 461 - Capstone Design II Credits: 3

Required Math and Science Courses - Credits: 16

- BIOL 101 - General Biology Credits: 3
- MATH 240 - Linear Algebra and Differential Equations Credits: 3
- PHYS 213 - General Physics III/ Lab Credits: 4
- STAT 152 - Elementary Statistics I Credits: 3
- MATH/SCI - Mathematice/Science Elective Credits: 3

**Natural Science and Mathematice College Wide Requirement -
Credits: 12**

Students must take the following four courses:

- CHEM 107 - General Chemistry I Credits: 3
- CHEM 111 - General Chemistry I Lab Credits: 1
- MATH 225 - Calculus I Credits: 4
- PHYS 211 - General Physics I/ Lab Credits: 4

Civil Engineering Electives (CE 4xx) - Credits: 9

Students must choose 3 from the following courses:

- CIVL 411 - Reinforced Concrete Design Credits: 3
- CIVL 412 - Finite Element Analysis Credits: 3
- CIVL 421 - Highway Engineering Credits: 3
- CIVL 422 - Transportation Terminal Design Credits: 3
- CIVL 431 - Environmental Engineering Design Credits: 3
- CIVL 432 - Groundwater Hydrology Credits: 3
- CIVL 440 - Construction Management Credits: 3
- CIVL 441 - Sustainable Development Credits: 3

Engineering Elective (ENGR xxx) - Credits: 3

Students must choose 1 from the following courses:

- ENGR 240 - Dynamics Credits: 3
- ENGR 310 - Introduction to Electrical Engineering Credits: 3
- ENGR 320 - Thermodynamics Credits: 3

Industrial and Systems Engineering (BS)

The Bachelor of Science in Industrial and Systems Engineering program is designed to generate highly skilled graduates with a foundation capable of achieving lifelong professional development in any environment requiring complex process development and improvement. The foundation for achieving program outcomes is established through a rigorous curriculum focused on developing engineering fundamentals and creativity. Graduates will have the opportunity to enter all types of industries in meaningful and important jobs, continue their education towards advanced degrees, or, in some cases, pursue a combination of professional employment and continued education. This program meets Pennsylvania requirements. Professional licensure and certification regulations vary by state and you are urged to check with your state licensing board.

Industrial and Systems Engineering (BS) - Credits: 85

Required Engineering Courses - Credits: 55

- ENGR 110 - Introduction to Engineering Credits: 2
- ENGR 120 - Engineering Design Tools Credits: 2
- ENGR 130 - Engineering Computing Tools Credits: 2
- ENGR 310 - Introduction to Electrical Engineering Credits: 3

- ENGR 340 - Engineering Economics Credits: 3
- ISE 311 - Introduction to Operations Research Credits: 3
- ISE 362 - Lean Service Systems Credits: 3
- ISE 370 - Design of Industrial Systems and Processes Credits: 3
- ISE 372 - Manufacturing Systems Design and Analysis Credits: 3
- ISE 373 - Quality Engineering Credits: 3
- ISE 402 - Work Design Credits: 3
- ISE 410 - Engineering Project Management Credits: 3
- ISE 420 - Simulation of Industrial Systems Credits: 4
- ISE 421 - Lean Supply Chain Credits: 3
- ISE 430 - Production Planning & Control Credits: 3
- ISE 440 - Health Care Systems Engineering Credits: 3
- ISE 442 - Human Factors Engineering Credits: 3
- ISE 460 - Engineering Risk Analysis Credits: 3
- ISE 487 - Industrial and Systems Engineering Senior Project I Credits: 3
- ISE 488 - Senior Project Credits: 3
- PHYS 314 - Statics Credits: 3

ISE Electives - Credits: 6 minimum

Students must choose two from the following five courses:

- ISE 330 - Six Sigma Methodology Credits: 3
- ISE 382 - Sustainable Processes Credits: 3
- ISE 432 - Productivity Analysis Credits: 3
- ISE 480 - Industrial and Systems Engineering Undergraduate Research Credits: 1-3
- MATH 316 - Advanced Methods of Operations Research Credits: 3

Required Math and Science Courses - Credits: 21

- MATH 230 - Calculus II Credits: 4
- MATH 231 - Calculus III Credits: 4
- MATH 309 - Linear Algebra Credits: 3
- PHYS 212 - General Physics II/ Lab Credits: 3
- PHYS 213 - General Physics III/ Lab Credits: 4
- STAT 350 - Applied Statistics Credits: 3

Natural Science & Math College Wide Requirement - Credits: 12

- CHEM 107 - General Chemistry I Credits: 3
- CHEM 111 - General Chemistry I Lab Credits: 1
- MATH 225 - Calculus I Credits: 4
- PHYS 211 - General Physics I/ Lab Credits: 4

Mechanical Engineering (BS)

Major Requirements - Credits: 85

Required Engineering Courses - Credits: 68

- ENGR 110 - Introduction to Engineering Credits: 2
- ENGR 120 - Engineering Design Tools Credits: 2
- ENGR 130 - Engineering Computing Tools Credits: 2
- ENGR 210 - Statics Credits: 3
- ENGR 220 - Engineering Materials Credits: 3
- ENGR 230 - Mechanics of Materials Credits: 3
- ENGR 240 - Dynamics Credits: 3
- ENGR 301 - Fluid Mechanics Credits: 3
- ENGR 310 - Introduction to Electrical Engineering Credits: 3
- ENGR 320 - Thermodynamics Credits: 3
- ENGR 340 - Engineering Economics Credits: 3
- MECH 310 - Machines and Mechanisms Credits: 4
- MECH 320 - Manufacturing Processes Credits: 3
- MECH 330 - Introduction to Mechatronics Credits: 4
- MECH 340 - Heat Transfer Credits: 4
- MECH 410 - Machine Design Credits: 4
- MECH 420 - Design and Manufacturing Credits: 3
- MECH 430 - Mechatronics Credits: 3
- ME 4xx - Mechanical Engineering Elective Credit: 3
- ME 4xx - Mechanical Engineering Elective Credit: 3
- ME 4xx - Mechanical Engineering Elective Credit: 3
- MECH 460 - Capstone Design Credits: 3

Required Math and Science Courses - Credits: 17

- MATH 231 - Calculus III Credits: 4
- MATH 240 - Linear Algebra and Differential Equations Credits: 3
- MATH/SCI - Mathematic/Science Elective Credits: 3
- PHYS 212 - General Physics II/ Lab Credits: 3
- PHYS 213 - General Physics III/ Lab Credits: 4

Natural Science and Mathematic College Wide Requirement - Credits: 12

Students must take the following four courses:

- CHEM 107 - General Chemistry I Credits: 3
- CHEM 111 - General Chemistry I Lab Credits: 1
- MATH 225 - Calculus I Credits: 4
- PHYS 211 - General Physics I/ Lab Credits: 4

Mechanical Engineering Electives (ME 4xx) - Credits: 9

Students must choose 3 from the following courses:

- MECH 411 - Mechanical Control Systems Credits: 3
- MECH 421 - Mechanical Vibrations Credits: 3
- MECH 422 - Thermal System Design Credits: 3
- MECH 423 - Additive Manufacturing Credits: 3
- MECH 431 - Introduction to Robotics Credits: 3
- MECH 440 - HVAC Systems Credits: 3
- MECH 441 - Sustainable Energy Credits: 3

Minor in Physics

Physics Department

Requirements for the Minor - Credits: 18-20

Required Physics Courses - Credits: 14

- PHYS 211 - General Physics I/ Lab Credits: 4
- PHYS 212 - General Physics II/ Lab Credits: 3
- PHYS 213 - General Physics III/ Lab Credits: 4
- PHYS 312 - Modern Physics 1 Credits: 3

Elective Physics Courses - Credits: at least 4

Choose 2-3 courses from the following:

- PHYS 314 - Statics Credits: 3
- PHYS 315 - Dynamics Credits: 3
- PHYS 331 - Mathematical Methods of Physics Credits: 3
- PHYS 371 - Physical Optics Credits: 3
- PHYS 375 - Thermal Physics Credits: 3
- PHYS 381 - Advanced Physics Laboratory Credits: 2
- PHYS 382 - Optics Laboratory Credits: 2
- PHYS 385 - Computational Physics Credits: 3
- PHYS 410 - Electricity and Magnetism Credits: 3
- PHYS 412 - Modern Physics 2 Credits: 1
- PHYS 480 - Quantum Credits: 3

Petroleum and Natural Gas Engineering (BS)

Petroleum and Natural Gas Engineers are responsible for discovery, extraction, transportation, and refinement of natural gas and oil resources. Petroleum and natural gas engineers have the opportunity to work in a broad range of careers in a variety of locations around the world. The career options include; Drilling engineers who design and supervise the drilling of oil and natural gas wells; Production engineers who design facilities that produce, transport and store oil and natural gas; Reservoir engineers who evaluate and forecast oil and gas field performance, design extraction processes and conduct economic evaluation; and Research scientists and engineers (usually requires a

graduate degree) who find new ways of improving production, reservoir recovery processes, performance, and treatment processes.

Energy is a key component in our everyday lives. A secure energy future requires a balance between environmental impact and affordable supply. A recent report by the US Energy Information Administration predicts a 56% net growth in the global energy demand between 2010 and 2040. To meet this increasing demand for energy, petroleum engineers will continue to develop innovative technologies for economic extraction of the oil and natural gas from the existing and/or new resources. U.S. Bureau of Labor Statistics predicts that employment of petroleum engineers will grow at a much faster rate than other engineering disciplines. In addition, the Forbes magazine rates the Bachelor of Science degree in Petroleum and Natural Gas Engineering (PNGE) as having the highest starting salary for bachelor's degrees in the U.S.

The Petroleum and Natural Gas Engineering Bachelor of Science degree program has been designed to provide graduates with the knowledge and capabilities required to successfully practice as petroleum and natural gas engineers and to meet the Accreditation Board of Engineering and Technology (ABET) requirements for petroleum engineering programs. Professionals in the PNGE field must have a strong foundation in mathematics and the sciences including the geological principles relating to the occurrence, discovery and production of fluid hydrocarbons. The petroleum and natural gas engineer must know and be capable of applying both conventional engineering design principles as well as those pertaining specifically to the field of petroleum and natural gas engineering. This program will provide students with a hands-on, in-depth learning experience covering the major fields of study in petroleum and natural gas engineering, including exploration, production, and transportation of oil and natural gas resources using safe and environmentally friendlier methods. The curriculum will concentrate on various design aspects and applications pertaining to the petroleum and natural gas industry.

The B.S. in Petroleum and Natural Gas program will generate highly skilled graduates with a foundation capable of achieving lifelong professional development in an industry that is rapidly growing. Graduates will be able to successfully participate as professional engineers in the petroleum and natural gas engineering industry and/or in post-graduate education; engage in life-long professional development with a commitment to continual professional growth; achieve leadership positions in the Petroleum and Natural Gas industry; and consistently practice professional and ethical responsibilities, and be mindful of the role of professionals in the global society.

This program meets Pennsylvania requirements. Professional licensure and certification regulations vary by state and you are urged to check with your state licensing board.

Major Requirements - Credits: 85

Required Engineering Courses - Credits: 51

- ENGR 110 - Introduction to Engineering Credits: 2
- ENGR 120 - Engineering Design Tools Credits: 2
- ENGR 130 - Engineering Computing Tools Credits: 2
- ENGR 301 - Fluid Mechanics Credits: 3
- ENGR 320 - Thermodynamics Credits: 3
- PHYS 314 - Statics Credits: 3
- PNGE 201 - Introduction to Petroleum and Natural Gas Engineering Credits: 1
- PNGE 312 - Reservoir Rock and Fluid Properties Credits: 4
- PNGE 315 - Reservoir Fluids Credits: 3
- PNGE 325 - Reservoir Engineering Credits: 3
- PNGE 410 - Drilling Engineering/Lab Credits: 4
- PNGE 420 - Production Engineering Credits: 3
- PNGE 430 - Reservoir Simulation Credits: 3

- PNGE 432 - Formation Evaluation Credits: 3
- PNGE 435 - Pressure Transient Analysis Credits: 3
- PNGE 441 - Oil and Natural Gas Resource Valuation and Economics Credits: 3
- PNGE 459 - Oil & Natural Gas Engr. Design I Credits: 1
- PNGE 460 - Petroleum and Natural Gas Engineering Design/Capstone Credits: 3
(This course will be 2 credits - effective fall 2020)

PNGE Electives - Credits: 4

Students must choose one or two courses from list below for a minimum of 4 credits.

- EGEO 358 - Introduction to Geophysics/Lab Credits: 3
- PNGE 330 - Unconventional Reservoir Engineering Credits: 3
- PNGE 440 - Hydraulic Fracturing Credits: 2
- PNGR 470 - Undergraduate Research Credits: 1-3
- PNGE 445 - Natural Gas Engineering w/Lab Credits: 3

Required Math and Science Courses - Credits: 29

- EGEO 201 - Earth Materials and Processes/Lab Credits: 4
- EGEO 327 - Structural Geology/Lab Credits: 4
- MATH 230 - Calculus II Credits: 4
- MATH 231 - Calculus III Credits: 4
- MATH 301 - Differential Equations I Credits: 3
- MATH 309 - Linear Algebra Credits: 3
- PHYS 212 - General Physics II/ Lab Credits: 3
- PHYS 213 - General Physics III/ Lab Credits: 4

Physics (BA)

Physics Department

Physicists study the world around us in order to discover the basic principles or laws which govern the natural world.

As a physicist you can:

- Seek to understand the origin of the universe and the ultimate structure of matter;
- Study the principles underlying the structure of materials in order to design faster computer chips or improved liquid crystals used for electronic displays;
- Work in hands-on lab courses studying laser-based optics, learn electronic instrumentation for the physical sciences including the computer acquisition and analysis of data, and use modern lab equipment such as the electron spin resonance spectrometer which can detect the radiation from individual atoms;
- Acquire the theoretical and experimental background for work in areas such as acoustics, astrophysics, biophysics, chemical physics, computer science, education mathematical physics, and engineering.

Developments in science and technology move very fast and a degree in physics provides you with the fundamental tools, which you will need in order to attack the scientific and technological problems of this millennium.

An undergraduate degree in Physics gives students a broad, deep, rigorous understanding to solve many types of quantitative problems, a skill which is useful to many different careers in computers, engineering, finance, etc. With the rapid and unpredictable pace and direction of technological advance, training in physics gives the undergraduate their most important skill, namely the ability to think clearly and rigorously about a technical problem which may arise in the workplace.

Students seeking state certification in secondary education must also complete requirements for a Master of Education degree, a one-year program at SRU. All of our programs are designed to steadily develop the quantitative, deductive and inductive reasoning skills that physicists must have.

Requirements for the Major - Credits: 39

Required Physics Courses - Credits: 19

- PHYS 212 - General Physics II/ Lab Credits: 3
- PHYS 213 - General Physics III/ Lab Credits: 4
- PHYS 312 - Modern Physics 1 Credits: 3
- PHYS 314 - Statics Credits: 3
- PHYS 331 - Mathematical Methods of Physics Credits: 3
OR
- MATH 331 - Mathematical Methods of Physics Credits: 3
- PHYS 381 - Advanced Physics Laboratory Credits: 2
OR
- PHYS 382 - Optics Laboratory Credits: 2
- PHYS 412 - Modern Physics 2 Credits: 1

Required Physics Electives - Credits: 6

Choose two courses:

- PHYS 315 - Dynamics Credits: 3
- PHYS 375 - Thermal Physics Credits: 3
- PHYS 385 - Computational Physics Credits: 3
- PHYS 410 - Electricity and Magnetism Credits: 3
- PHYS 480 - Quantum Credits: 3

Related Field Work - Credits: 14

- CPSC 146 - Programming Principles Credits: 3
- MATH 230 - Calculus II Credits: 4
- MATH 231 - Calculus III Credits: 4
- MATH 240 - Linear Algebra and Differential Equations Credits: 3

A Language is Required of all BA Majors

Modern Language competency at the 103 level is required.

Specialization: Engineering

See the Pre-professional Programs section.

Natural Science & Math College Wide Requirements - Credits: 12

- CHEM 107 - General Chemistry I Credits: 3
- CHEM 111 - General Chemistry I Lab Credits: 1
- MATH 125 - Precalculus Credits: 4
OR
- MATH 225 - Calculus I Credits: 4
- PHYS 201 - Elements of Physics I/ Lab Credits: 4
OR
- PHYS 211 - General Physics I/ Lab Credits: 4

Physics (BS)

Physics Department

Physicists study the world around us in order to discover the basic principles or laws which govern the natural world. As a physicist you can:

- Seek to understand the origin of the universe and the ultimate structure of matter;
- Study the principles underlying the structure of materials in order to design faster computer chips or improved liquid crystals used for electronic displays;
- Work in hands-on lab courses studying laser-based optics, learn electronic instrumentation for the physical sciences including the computer acquisition and analysis of data, and use modern lab equipment such as the electron spin resonance spectrometer which can detect the radiation from individual atoms;
- Acquire the theoretical and experimental background for work in areas such as acoustics, astrophysics, biophysics, chemical physics, computer science, education mathematical physics, and engineering.

Developments in science and technology move very fast and a degree in Physics provides you with the fundamental tools, which you will need in order to attack the scientific and technological problems of this millennium.

An undergraduate degree in Physics gives students a broad, deep, rigorous understanding to solve many types of quantitative problems, a skill which is useful to many different careers in computers, engineering, finance, etc. With the rapid and unpredictable pace and direction of technological advance, training in physics gives the undergraduate their most important skill, namely the ability to think clearly and rigorously about a technical problem which may arise in the workplace.

Students seeking state certification in secondary education must also complete requirements for a Master of Education degree, a one-year program at SRU. All of our programs are designed to steadily develop the quantitative, deductive and inductive reasoning skills that physicists must have.

New Concentration in Computational Biophysics is available as an *optional* component to the B.S. Physics degree.

College Wide Requirements

- CHEM 107 - General Chemistry I Credits: 3
- CHEM 111 - General Chemistry I Lab Credits: 1
- MATH 225 - Calculus I Credits: 4
- PHYS 211 - General Physics I/ Lab Credits: 4

Requirements for the Major - Credits: 57

Required Physics Courses - Credits: 26

- PHYS 212 - General Physics II/ Lab Credits: 3
- PHYS 213 - General Physics III/ Lab Credits: 4
- PHYS 312 - Modern Physics 1 Credits: 3
- PHYS 314 - Statics Credits: 3
- PHYS 331 - Mathematical Methods of Physics Credits: 3
- OR
- MATH 331 - Mathematical Methods of Physics Credits: 3
- PHYS 371 - Physical Optics Credits: 3
- PHYS 410 - Electricity and Magnetism Credits: 3
- PHYS 412 - Modern Physics 2 Credits: 1
- PHYS 480 - Quantum Credits: 3

Advanced Lab and Optics Lab - Credits: 4

- PHYS 381 - Advanced Physics Laboratory Credits: 2
- PHYS 382 - Optics Laboratory Credits: 2

Required Physics Electives - Credits: 6

Choose two courses:

- PHYS 315 - Dynamics Credits: 3
- PHYS 375 - Thermal Physics Credits: 3
- PHYS 385 - Computational Physics Credits: 3

Other Required Math and Science Courses - Credits: 21

- CHEM 108 - General Chemistry II Credits: 3
- CHEM 112 - General Chemistry II Lab Credits: 1
- CPSC 146 - Programming Principles Credits: 3
- MATH 230 - Calculus II Credits: 4
- MATH 231 - Calculus III Credits: 4
- MATH 240 - Linear Algebra and Differential Equations Credits: 3
- MATH 301 - Differential Equations I Credits: 3

BS Physics - Computational Physics Track - Credits: 59

Computational Physics combines physics, computer science and applied mathematics in order to provide scientific solutions to realistic and complex problems. Physicists have very precise mathematical theories describing how physical systems will behave. Unfortunately, very often the theory's equations are so complex that solving them analytically is not realistic. This is where the computational physicists come in. With the use of computers, they perform these complex calculations that cannot be done using the traditional techniques.

Required Physics Major Courses - Credits: 27

- PHYS 212 - General Physics II/ Lab Credits: 3
 - PHYS 213 - General Physics III/ Lab Credits: 4
 - PHYS 312 - Modern Physics 1 Credits: 3
 - PHYS 315 - Dynamics Credits: 3
 - PHYS 331 - Mathematical Methods of Physics Credits: 3
- OR
- MATH 331 - Mathematical Methods of Physics Credits: 3
 - PHYS 381 - Advanced Physics Laboratory Credits: 2
 - PHYS 385 - Computational Physics Credits: 3
 - PHYS 412 - Modern Physics 2 Credits: 1
 - PHYS 480 - Quantum Credits: 3
 - PHYS 490 - Independent Study Credits: 1 to 3

Required Physics Electives - Credits: 6

Choose two courses:

NOTE: students are encouraged to take PHYS 410

- PHYS 314 - Statics Credits: 3
- PHYS 325 - Analog & Digital Electronics Credits: 3
- PHYS 371 - Physical Optics Credits: 3
- PHYS 375 - Thermal Physics Credits: 3
- PHYS 410 - Electricity and Magnetism Credits: 3

Other Required Math and Science Courses - Credits: 26

- CPSC 146 - Programming Principles Credits: 3
- CPSC 246 - Advanced Programming Principles Credits: 3
- CPSC 374 - Algorithms and Data Structures Credits: 3
- MATH 230 - Calculus II Credits: 4
- MATH 231 - Calculus III Credits: 4
- MATH 240 - Linear Algebra and Differential Equations Credits: 3
- MATH 301 - Differential Equations I Credits: 3
- MATH 315 - Numerical Mathematics Credits: 3

Concentration in Computational Biophysics

Advances in genetics and molecular biology, and the impetus of the genome project, has generated a need for using computational sciences to understand biological processes. The proposed concentration is to

prepare students in the interdisciplinary areas of BioInformatics and Biophysics consisting of coursework from biology, computer science, chemistry, mathematics and physics. The concentration in computational biophysics will allow students to either obtain jobs or pursue graduate school in the areas of biophysics, bioinformatics, cellular and systems biology, genomics and proteomics, molecular structural biology, biochemistry, drug discovery, drug design, protein structure, gene finding and genome assembly to name a few.

- BIOL 104 - Principles of Biology/Lab Credits: 4
- BIOL 250 - Genetics/Lab Credits: 4
- BIOL 325 - Biometry / Lab Credits: 3
- BIOL 335 - Cell Biology/Lab Credits: 3
- BIOL 370 - Molecular Biology/Lab Credits: 3
- CHEM 201 - Organic Chemistry I Credits: 3
- CPSC 246 - Advanced Programming Principles Credits: 3
- CPSC 374 - Algorithms and Data Structures Credits: 3
- CPSC 498 - Selected Topics Credits: 1 to 3
Topic: Machine Learning and BioInformatics

Pre-Engineering with Pennsylvania State University

Physics Department

327 Vincent Science Hall
724-738-2074

In a cooperative program with the Pennsylvania State University (PSU) the pre-engineering student undertakes a three-year curriculum in liberal studies and natural sciences (physics, mathematics, chemistry, computer science, geology) at SRU. Upon satisfactory completion of the first three years and recommendation, the students will enter PSU and complete the engineering major course requirements, as specified. Successful completion of these programs will lead to an appropriate baccalaureate degree from each institution.

A student who meet the stipulated criteria and is recommended for transfer by SRU's Department of Physics will be able to enter one of the following areas of study:

Agricultural and Biological Engineering
Computer Engineering
Electrical Engineering
Energy Engineering
Engineering Science
Environmental Engineering
Material Science and Engineering
Mining Engineering
Nuclear Engineering

Admission Policies & Procedures of the dual-degree Program with Penn-State

1. Application for admission to the program will be made to Slippery Rock University, where the candidate will be subject to the admission requirements of that institution.

2. A student will indicate the desire to follow the dual-degree program either at the time of the student's admission to Slippery Rock University, or early enough in the student's program to permit the student to complete all required prerequisite courses. Results from aptitude and achievement tests, records of scholastic achievement, and other pertinent information will be exchanged between institutions to aid both in guiding and in counseling students and prospective students. The Pennsylvania State University will provide Slippery Rock University with copies of the University Bulletin, Adviser's Manuals, and curriculum planning guides used by advisers at Penn State for each major.
3. Transfer students to SRU are not eligible to enroll in the dual-degree program.

Students are advised by Slippery Rock University that some government-provided financial aid may not be available for a fifth year of study because engineering is considered, by financial-aid regulations, to be a four-year program.

This program meets Pennsylvania requirements. Professional licensure and certification regulations vary by state and you are urged to check with your state licensing board.

Requirements for the Major - Credits: 58

Specialization: Pre-engineering

Required Physics Courses - Credits: 20

- PHYS 140 - Engineering Graphics I Credits: 2
- PHYS 141 - Engineering Graphics II Credits: 1
- PHYS 211 - General Physics I/ Lab Credits: 4
- PHYS 212 - General Physics II/ Lab Credits: 3
- PHYS 213 - General Physics III/ Lab Credits: 4
- PHYS 314 - Statics Credits: 3
- PHYS 331 - Mathematical Methods of Physics Credits: 3
- OR
- MATH 331 - Mathematical Methods of Physics Credits: 3

Related Field Work - Credits: 29

- CHEM 107 - General Chemistry I Credits: 3
- CHEM 108 - General Chemistry II Credits: 3
- CHEM 111 - General Chemistry I Lab Credits: 1
- CHEM 112 - General Chemistry II Lab Credits: 1
- CPSC 140 - Introduction to Programming Credits: 3
- MATH 225 - Calculus I Credits: 4
- MATH 230 - Calculus II Credits: 4
- MATH 231 - Calculus III Credits: 4
- MATH 240 - Linear Algebra and Differential Equations Credits: 3
- MATH 301 - Differential Equations I Credits: 3

Engineering Electives - Credits: 9

Elective courses should be selected based upon the area of engineering chosen. Please contact your academic advisor for specific course selections.

Choose nine credits from the following:

- CHEM 201 - Organic Chemistry I Credits: 3
- CHEM 202 - Organic Chemistry II Credits: 3
- CHEM 211 - Organic Chemistry Laboratory I Credits: 1
- CHEM 212 - Organic Chemistry Laboratory II Credits: 1
- CHEM 301 - Physical Chemistry 1 Credits: 3
- OR
- PHYS 301 - Physical Chemistry I Credits: 3
- CPSC 246 - Advanced Programming Principles Credits: 3
- CPSC 236 - Selected Computer Languages Credits: 3
- CPSC 370 - Computer Organization and Architecture Credits: 3
- EGEO 101 - Physical Geology Credits: 3
- EGEO 111 - Physical Geology Lab Credits: 1
- EGEO 201 - Earth Materials and Processes/Lab Credits: 4
- EGEO 202 - Earth History/Lab Credits: 4
- EGEO 327 - Structural Geology/Lab Credits: 4
- EGEO 360 - Introduction to Hydrology/Lab Credits: 3
- MATH 315 - Numerical Mathematics Credits: 3
- STAT 352 - Mathematical Statistics I Credits: 3
- PHYS 315 - Dynamics Credits: 3
- PHYS 371 - Physical Optics Credits: 3
- PHYS 375 - Thermal Physics Credits: 3
- PHYS 381 - Advanced Physics Laboratory Credits: 2
- PHYS 382 - Optics Laboratory Credits: 2
- PHYS 385 - Computational Physics Credits: 3
- PHYS 410 - Electricity and Magnetism Credits: 3
- PHYS 480 - Quantum Credits: 3

Pre-Engineering with WVU and YSU

327 Vincent Science Hall
724-738-2074

In a cooperative program with West Virginia University (WVU) or Youngstown State University (YSU), the pre-engineering student undertakes a three-year curriculum in liberal studies and natural sciences (physics, mathematics, chemistry, geology) at SRU and a two-year engineering curriculum at WVU or YSU. A student recommended for transfer by SRU's Department of Physics will be able to enter any one of the following areas of study:

Agricultural and Biological Engineering
Chemical Engineering
Civil & Environmental Engineering
Computer Engineering
Electrical Engineering
Energy Engineering
Engineering Science
Geo-Environmental Engineering
Industrial Engineering
Material Science and Engineering
Mechanical Engineering

Mining Engineering
Nuclear Engineering
Petroleum and Natural Gas Engineering

The cooperative program is an effort to fulfill the following objectives:

1. To cooperatively provide a general education in liberal arts and sciences, as well as engineering education for each student enrolled so that through five years of study a student may complete what otherwise could require six or more years.
2. To provide a student who has not yet decided between engineering and other disciplines, additional time to make that decision while the student studies both arts and sciences during the first three years at Slippery Rock University.
3. To enable qualified students to receive both a liberal and technical education at relatively low cost and, in doing so, provide the commonwealth and the nation with more broadly educated engineers.

This program meets Pennsylvania requirements. Professional licensure and certification regulations vary by state and you are urged to check with your state licensing board.

Requirements for the Major - Credits: 58

Required Physics Courses - Credits: 20

- PHYS 140 - Engineering Graphics I Credits: 2
- PHYS 141 - Engineering Graphics II Credits: 1
- PHYS 211 - General Physics I/ Lab Credits: 4
- PHYS 212 - General Physics II/ Lab Credits: 3
- PHYS 213 - General Physics III/ Lab Credits: 4
- PHYS 314 - Statics Credits: 3
- PHYS 331 - Mathematical Methods of Physics Credits: 3
- OR
- MATH 331 - Mathematical Methods of Physics Credits: 3

Related Field Work - Credits: 29

- CHEM 107 - General Chemistry I Credits: 3
- CHEM 108 - General Chemistry II Credits: 3
- CHEM 111 - General Chemistry I Lab Credits: 1
- CHEM 112 - General Chemistry II Lab Credits: 1
- CPSC 140 - Introduction to Programming Credits: 3
- MATH 225 - Calculus I Credits: 4
- MATH 230 - Calculus II Credits: 4
- MATH 231 - Calculus III Credits: 4
- MATH 240 - Linear Algebra and Differential Equations Credits: 3
- MATH 301 - Differential Equations I Credits: 3

Engineering Electives - Credits: 9

Elective courses should be selected based upon the area of engineering chosen. Please contact your academic adviser for specific course selections.

Choose nine credits from the following:

- CHEM 201 - Organic Chemistry I Credits: 3
- CHEM 202 - Organic Chemistry II Credits: 3
- CHEM 211 - Organic Chemistry Laboratory I Credits: 1
- CHEM 212 - Organic Chemistry Laboratory II Credits: 1
- CHEM 301 - Physical Chemistry I Credits: 3
- OR
- PHYS 301 - Physical Chemistry I Credits: 3
- CPSC 236 - Selected Computer Languages Credits: 3
- CPSC 246 - Advanced Programming Principles Credits: 3
- CPSC 370 - Computer Organization and Architecture Credits: 3
- EGEO 101 - Physical Geology Credits: 3
- EGEO 111 - Physical Geology Lab Credits: 1
- EGEO 201 - Earth Materials and Processes/Lab Credits: 4
- EGEO 202 - Earth History/Lab Credits: 4
- EGEO 327 - Structural Geology/Lab Credits: 4
- EGEO 360 - Introduction to Hydrology/Lab Credits: 3
- MATH 315 - Numerical Mathematics Credits: 3
- STAT 352 - Mathematical Statistics I Credits: 3
- PHYS 315 - Dynamics Credits: 3
- PHYS 371 - Physical Optics Credits: 3
- PHYS 375 - Thermal Physics Credits: 3
- PHYS 381 - Advanced Physics Laboratory Credits: 2
- PHYS 382 - Optics Laboratory Credits: 2
- PHYS 385 - Computational Physics Credits: 3
- PHYS 410 - Electricity and Magnetism Credits: 3
- PHYS 480 - Quantum Credits: 3

Pre-Metrology

047 East Gym
724-738-2074

Metrology is the science of measurement. Metrologists develop and evaluate calibration systems that measure characteristics of physical objects, substances, or phenomena. Quantities measured include mass, length, time, temperature, electric current, luminous intensity, and other derived units of physical or chemical measure. Metrologists also develop calibration methods and techniques based on the techniques of measurement science, technical analysis of measurement problems, and accuracy and precision requirements. Metrologists are typically employed in research laboratories, government agencies, the military, and private industry.

Slippery Rock University and Butler County Community College offer a joint cooperative program in Metrology and Physics. This cooperative program has the following major objectives.

1. To provide cooperatively a general education in a liberal arts institution, as well as technical education in a specialized school for each student enrolled so that through four years of study, a student may complete what otherwise could require five or more years.

2. To allow those qualified students to receive both a liberal and technical education at relatively low costs and, in so doing, provide the Commonwealth and the Nation with more broadly educated scientists.

Students can choose from two programs offered. Butler County Community College students enrolled in the metrology program can complete their AAS. degree and then transfer to Slippery Rock University in order to complete a BS or BA degree in physics. For the typical student, this transfer will comprise a 2-2 program, with two years spent at Butler County Community College and two years at Slippery Rock University. Students successfully completing this program will be awarded two degrees. Slippery Rock University students enrolled in the BA degree physics program can complete their undergraduate studies in the metrology program at Butler County Community College. For a typical student, this transfer will comprise a 3-1 program, with three years spent at Slippery Rock University and one year at Butler County Community College. Students successfully completing this program will be awarded two degrees: a BA in physics from Slippery Rock University and an AAS in metrology from Butler County Community College.

Specific plans of study and other metrology program details can be obtained by contacting the chair of the physics department in room 327 Vincent Science Hall.

Teacher Certification in Physics

Requirements for the Certification

Teacher certification is earned through the master of education degree at Slippery Rock. Students seeking secondary school teaching certification in physics must earn a bachelor of arts or a bachelor of science degree in physics and contact the Department of Secondary Education/Foundations of Education concerning its graduate program in education. Information about this program, including prerequisites for admission, may be obtained from the Secondary Education/Foundations of Education office in 114 McKay Education Building.

Psychology

309 Vincent Science Center
724-738-2077

Psychology

Psychology is the study of human and animal behavior. Psychology has three faces: It is a discipline, a major subject of study in colleges and universities. It is a science, a method of conducting research and of understanding behavioral data. Psychology is also a profession, a calling that requires one to apply special knowledge, abilities, and skills in order to solve human problems. Thus, the department's mission is threefold. First, we strive to provide our students with discipline specific knowledge that is accurate and reflects current approaches in the field of psychology. Second, we instruct them in the scientific method of acquiring knowledge and enhance their research skills and sense of inquiry. Third, we prepare students to enter the profession in which they can apply the knowledge and abilities acquired to understand and suggest solutions for real-world problems. The cornerstone of our mission and our curriculum is a commitment to provide our students with a strong experimental foundation, or understanding that psychology is a science, and as such uses the scientific method to conduct research and to understand behavior. This experimental foundation is necessary so that students are prepared to do research, or if that is not in their plans, to be critical consumers of the research literature in whatever area of psychology they choose.

Chair

Jennifer Sanftner McGraw

Secretary

Arlene Widenhofer

Faculty

Elizabeth Boerger, Catherine Massey, Chris L. Niebauer, Ann Romanczyk, Jennifer Sanftner McGraw, Linda Veronie, Jennifer Willford

Psychology is the science of behavior. The discipline is experiencing unprecedented growth and change. This is an important and exciting science that attempts to understand human behavior.

The Department of Psychology is oriented toward meeting three broad educational needs: preparation of students for occupations related to the field; preparation of exceptional students for entry into graduate programs at universities; preparation for other fields, such as medicine, law, social work, and others. The department has established experimental laboratories for studying human behavior, including character and moral development and imagination in children and young adults, gender development and interpersonal processes in emerging adulthood across the lifespan; LGBT identity development and health; brain functioning and consciousness; social judgment, stereotypes, and cross cultural studies; eating disorders and body image; personality and coping styles; brain structure and function via brain imaging and effects of drugs in the developing brain.

Opportunities for professional involvement include Psi Chi, the Psychology Club, and the Reflections Body Image Organization who organize and participate in service, fundraising, social, and educational activities. There are opportunities to gain research experience via participation in departmental research activities. A significant number of majors have achieved co-authorship on research presentations at national meetings and on articles published in professional journals. Internship experiences generally reflect the career interests of the student. Recent sites include agencies offering services involving troubled youth, drug and alcohol rehabilitation, geriatric agencies, children and youth services, crime victim advocates, and general psychiatric facilities.

Alumni have successfully pursued graduate training in a wide spectrum of professional areas including clinical, counseling, developmental and social psychology, as well as medicine and neuroscience. Most are involved in professional services.

Minor in Psychology

Psychology Department

The Psychology Minor enables students to study psychology without declaration of the major. This can be ideal for students in health sciences or other majors that deal with human behavior and functioning. A broad range of classes are offered to ensure the Psychology Minor is exposed to a variety of areas within the field.

Admission to the minor is based on availability of seats and students must declare the minor by the 1st semester of their Junior year. A grade of B or higher in Introduction to Psychology is required to declare and/or maintain the Minor. Students are required to maintain a minimum Psychology GPA of 2.5 in order to retain a declared major or minor in Psychology.

Requirements for a Minor in Psychology - Credits: 18

Required course:

Required Course - Credits: 3

Students must earn a grade of "B" or higher in introduction to Psychology to be admitted into the program. The course can only be repeated once.

- PSYC 105 - Introduction to Psychology Credits: 3

Core Electives - Credits: 15

Choose five courses. Nine credits must be taken at the 300 or higher level.

- PSYC 205 - Environmental Psychology Credits: 3
- PSYC 208 - Personality Credits: 3
- PSYC 233 - Sensation & Perception Credits: 3
- PSYC 240 - Human Sexual Behavior Credits: 3
- PSYC 244 - Developmental Psychology Credits: 3
- PSYC 276 - Introduction to Abnormal Psychology Credits: 3
- PSYC 300 - Psychology of Women, Gender and Culture Credits: 3
- PSYC 302 - Psychology of Criminal Behavior Credits: 3
- PSYC 310 - Introduction to Industrial-Organizational Psychology Credits: 3
- PSYC 315 - Psychology of Sexual and Gender Diversity Credits: 3
- PSYC 321 - Drugs and Behavior Credits: 3
- PSYC 360 - History of Psychology Credits: 3
- PSYC 364 - Child and Adolescent Development Credits: 3
- PSYC 377 - Social Psychology Credits: 3
- PSYC 475 - Behavior Modification Credits: 3

Psychology (BA)

Psychology Department

Students are required to maintain a minimum Psychology GPA of 2.5 in order to retain a declared major. Students are required to earn a grade of C or higher in Introduction to Psychology (PSYC 105) in order to take all other Psychology courses. Students are required to earn a grade of C or higher in Psychological Science I: Research Methods (PSYC 231) or Introduction to Experimental Psychology/Lab (PSYC 325/326), and a grade of C or higher in Psychological Science II: Statistical Applications (PSYC 232) or Introduction to Behavioral Statistics (PSYC 221) in order to progress in the program. Each course can only be repeated once.

Requirements for the Major - Credits: 36-40

Required Courses - Credits: 9

- PSYC 105 - Introduction to Psychology Credits: 3
- PSYC 231 - Psychological Science I: Research Methods Credits: 3
- PSYC 232 - Psychological Science II: Statistical Applications Credits: 3

Core Electives - Credits: 15-17

Choose 15-17 credits from the following:

- PSYC 244 - Developmental Psychology Credits: 3
- PSYC 276 - Introduction to Abnormal Psychology Credits: 3

- PSYC 303 - Learning Credits: 4
- PSYC 306 - Introduction to Psychological Testing Credits: 3
- PSYC 311 - Introduction to Behavioral Neuroscience Credits: 3 **(will be 4 credits effective fall 2020)**
- PSYC 338 - Cognitive Psychology Credits: 3
- PSYC 360 - History of Psychology Credits: 3
- PSYC 377 - Social Psychology Credits: 3

Psychology Electives - Credits: 12-13

An additional 12-13 PSYC credits are required for completion of major.

- PSYC 205 - Environmental Psychology Credits: 3
- PSYC 208 - Personality Credits: 3
- PSYC 233 - Sensation & Perception Credits: 3
- PSYC 240 - Human Sexual Behavior Credits: 3
- PSYC 244 - Developmental Psychology Credits: 3
- PSYC 276 - Introduction to Abnormal Psychology Credits: 3
- PSYC 289 - Positive Psychology Credits: 3
- PSYC 300 - Psychology of Women, Gender and Culture Credits: 3
- PSYC 302 - Psychology of Criminal Behavior Credits: 3
- PSYC 303 - Learning Credits: 4
- PSYC 304 - Theories of Counseling Credits: 3
- PSYC 306 - Introduction to Psychological Testing Credits: 3
- PSYC 310 - Introduction to Industrial-Organizational Psychology Credits: 3
- [PSYC 311 - Introduction to Behavioral Neuroscience Credits: 3
with
- PSYC 312 - Behavioral Neuroscience Laboratory Credits: 1]
- PSYC 315 - Psychology of Sexual and Gender Diversity Credits: 3
- PSYC 318 - Psychopathy of Childhood and Adolescence Credits: 3
- PSYC 320 - Introduction to Clinical Psychology Credits: 3
- PSYC 321 - Drugs and Behavior Credits: 3
- PSYC 334 - Health Psychology Credits: 3
- PSYC 338 - Cognitive Psychology Credits: 3
- PSYC 350 - Contemporary Topics in Psychological Science Credits: 1
- PSYC 360 - History of Psychology Credits: 3
- PSYC 364 - Child and Adolescent Development Credits: 3
- PSYC 365 - Psychology of Aging Credits: 3
- PSYC 375 - Psychopathology of Adulthood Credits: 3
- PSYC 377 - Social Psychology Credits: 3
- PSYC 415 - Multicultural Identity Development Credits: 3
- PSYC 428 - Social and Emotional Development Across the Lifespan Credits: 3
- PSYC 430 - Research Practicum in Psychology Credits: 3
- PSYC 445 - Infant and Child Cognition Credits: 3
- PSYC 449 - Seminar in Psychology Credits: 3
- [PSYC 450 - Field Placement Internship in Psychology Credits: 6

with

- PSYC 485 - Senior Integration Seminar Credits: 3]
- PSYC 475 - Behavior Modification Credits: 3
- PSYC 476 - Clinical Neuroscience Credits: 3
- PSYC 477 - Developmental Neuroscience Credits: 3
- PSYC 490 - Independent Study Credits: 1 to 3

Electives

- LIBR 110 - Research.com Credits: 1

Psychology (BS)

Psychology Department

Students are required to maintain a minimum Psychology GPA of 2.5 in order to retain a declared major. Students are required to earn a grade of C or higher in Introduction to Psychology (PSYC 105) in order to take all other Psychology courses. Students are required to earn a grade of C or higher in Psychological Science I: Research Methods (PSYC 231) or Introduction to Experimental Psychology/Lab (PSYC 325/326), and a grade of C or higher in Psychological Science II: Statistical Applications (PSYC 232) or Introduction to Behavioral Statistics (PSYC 221) in order to progress in the program. Each course can only be repeated once.

Requirements for the Major - Credits: 46-47

Required Core Courses - Credits: 9

- PSYC 105 - Introduction to Psychology Credits: 3
- PSYC 231 - Psychological Science I: Research Methods Credits: 3
- PSYC 232 - Psychological Science II: Statistical Applications Credits: 3

Core Electives - Credits: 15-17

Choose 15-17 credits from the following:

- PSYC 276 - Introduction to Abnormal Psychology Credits: 3
- PSYC 303 - Learning Credits: 4
- PSYC 306 - Introduction to Psychological Testing Credits: 3
- PSYC 311 - Introduction to Behavioral Neuroscience Credits: 3 **(will be 4 credits effective fall 2020)**
- PSYC 338 - Cognitive Psychology Credits: 3
- PSYC 244 - Developmental Psychology Credits: 3
- PSYC 360 - History of Psychology Credits: 3
- PSYC 377 - Social Psychology Credits: 3

Required Professional Competency - Credits: 3 or 9

Must complete either PSYC 430 or (PSYC 450 and PSYC 485):

- PSYC 430 - Research Practicum in Psychology Credits: 3
OR
- PSYC 450 - Field Placement Internship in Psychology Credits: 6
AND
- PSYC 485 - Senior Integration Seminar Credits: 3

Psychology Electives - Credits: 12-19

Choose 12-19 credits from the following.

- PSYC 205 - Environmental Psychology Credits: 3
- PSYC 208 - Personality Credits: 3
- PSYC 233 - Sensation & Perception Credits: 3
- PSYC 240 - Human Sexual Behavior Credits: 3
- PSYC 244 - Developmental Psychology Credits: 3
- PSYC 276 - Introduction to Abnormal Psychology Credits: 3
- PSYC 289 - Positive Psychology Credits: 3
- PSYC 300 - Psychology of Women, Gender and Culture Credits: 3
- PSYC 302 - Psychology of Criminal Behavior Credits: 3
- PSYC 303 - Learning Credits: 4
- PSYC 304 - Theories of Counseling Credits: 3
- PSYC 306 - Introduction to Psychological Testing Credits: 3
- PSYC 310 - Introduction to Industrial-Organizational Psychology Credits: 3

- [PSYC 311 - Introduction to Behavioral Neuroscience Credits: 3
with
- PSYC 312 - Behavioral Neuroscience Laboratory Credits: 1]

- PSYC 315 - Psychology of Sexual and Gender Diversity Credits: 3
- PSYC 318 - Psychopathy of Childhood and Adolescence Credits: 3
- PSYC 320 - Introduction to Clinical Psychology Credits: 3
- PSYC 321 - Drugs and Behavior Credits: 3
- PSYC 334 - Health Psychology Credits: 3
- PSYC 338 - Cognitive Psychology Credits: 3
- PSYC 350 - Contemporary Topics in Psychological Science Credits: 1
- PSYC 360 - History of Psychology Credits: 3
- PSYC 364 - Child and Adolescent Development Credits: 3
- PSYC 365 - Psychology of Aging Credits: 3
- PSYC 375 - Psychopathology of Adulthood Credits: 3
- PSYC 377 - Social Psychology Credits: 3
- PSYC 392 - Cross Cultural Psychology Credits: 3
- PSYC 415 - Multicultural Identity Development Credits: 3
- PSYC 428 - Social and Emotional Development Across the Lifespan Credits: 3
- PSYC 430 - Research Practicum in Psychology Credits: 3
- PSYC 445 - Infant and Child Cognition Credits: 3
- PSYC 449 - Seminar in Psychology Credits: 3

- [PSYC 450 - Field Placement Internship in Psychology Credits: 6
with
- PSYC 485 - Senior Integration Seminar Credits: 3]
- PSYC 475 - Behavior Modification Credits: 3
- PSYC 476 - Clinical Neuroscience Credits: 3
- PSYC 477 - Developmental Neuroscience Credits: 3
- PSYC 490 - Independent Study Credits: 1 to 3

Electives

- LIBR 110 - Research.com Credits: 1 REQUIRED

Psychology (BS) - 3+2 Pre-Student Affairs

The Psychology program offers a Pre-Student Affairs 3+2 option for students interested in a career in Student Affairs. Undergraduate students work with their academic advisor to complete courses needed to fulfill the requirements for both a Bachelor of Science degree and the entrance requirements for the Master of Arts in Student Affairs program. Careers in Student Affairs involve counseling-focused positions at colleges and universities, including mental health counseling as well as those in housing and residence life, career services, student activities, multicultural services, academic advising, etc. It is a specialized program that prepares students for graduate study by providing a strong basis in the biopsychosocial processes of human functioning. The first year of the Master of Arts in Student Affairs program meets the requirements for the fourth year of the Bachelor of Science degree.

Students are required to maintain minimum Overall and Psychology GPAs of 3.0 in order to retain the major in Psychology. Students are required to earn a grade of C or higher in Introduction to Psychology (PSYC 105) in order to take all other Psychology courses. Students are required to earn a grade of C or higher in Psychological Science I: Research Methods (PSYC 231) or Introduction to Experimental Psychology/Lab (PSYC 325/326), and a grade of C or higher in Psychological Science II: Statistical Applications (PSYC 232) or Introduction to Behavioral Statistics (PSYC 221) in order to progress in the program. Each course can only be repeated once.

Psychology (BS) - 3+2 Pre-Student Affairs

3+2 Pre-Student Affairs program requirements:

- Students are required to maintain minimum Overall and Psychology GPAs of 3.0 in order to retain the major in Psychology. Students are required to earn a grade of C or higher in Introduction to Psychology (PSYC 105) in order to take all other Psychology courses. Students are required to earn a grade of C or higher in Introduction to Behavioral Statistics (PSYC 221) and Introduction to Experimental Psychology/Lab (PSYC 325/326) in order to progress in the program. Each course can only be repeated once.

Required Courses - Credits: 18-19

- PSYC 105 - Introduction to Psychology Credits: 3
 - PSYC 221 - Introduction to Behavioral Statistics Credits: 3
- OR

- PSYC 232 - Psychological Science II: Statistical Applications Credits: 3
- PSYC 325 - Introduction to Experimental Psychology Credits: 3
- PSYC 326 - Experimental Psychology Laboratory Credits: 1
OR
- PSYC 231 - Psychological Science I: Research Methods Credits: 3
- PSYC 244 - Developmental Psychology Credits: 3
- PSYC 276 - Introduction to Abnormal Psychology Credits: 3
- PSYC 375 - Psychopathology of Adulthood Credits: 3

Required Professional Competency - Credits: 3

Choose 1 course:

- PSYC 420 - Community Service Practicum in Psychology Credits: 3
- PSYC 430 - Research Practicum in Psychology Credits: 3

Psychology Electives

Applied Psychology (Choose 2 courses) - Credits: 6

- PSYC 208 - Personality Credits: 3
- PSYC 304 - Theories of Counseling Credits: 3
- PSYC 306 - Introduction to Psychological Testing Credits: 3
- PSYC 318 - Psychopathy of Childhood and Adolescence Credits: 3
- PSYC 320 - Introduction to Clinical Psychology Credits: 3
- PSYC 475 - Behavior Modification Credits: 3

Biobehavioral (Choose 2 courses) - Credits: 6-8

- PSYC 233 - Sensation & Perception Credits: 3
- PSYC 289 - Positive Psychology Credits: 3
- PSYC 303 - Learning Credits: 4
- PSYC 311 - Introduction to Behavioral Neuroscience Credits: 3 **(will be 4 credits effective fall 2020)**
- PSYC 321 - Drugs and Behavior Credits: 3
- PSYC 334 - Health Psychology Credits: 3
- PSYC 338 - Cognitive Psychology Credits: 3
- PSYC 476 - Clinical Neuroscience Credits: 3

Developmental Psychology (Choose 2 courses) - Credits: 6

- PSYC 364 - Child and Adolescent Development Credits: 3
- PSYC 365 - Psychology of Aging Credits: 3
- PSYC 415 - Multicultural Identity Development Credits: 3
- PSYC 428 - Social and Emotional Development Across the Lifespan Credits: 3
- PSYC 445 - Infant and Child Cognition Credits: 3
- PSYC 477 - Developmental Neuroscience Credits: 3

Diversity Elective (Choose 1 course) - Credits: 3

- PSYC 240 - Human Sexual Behavior Credits: 3
- PSYC 300 - Psychology of Women, Gender and Culture Credits: 3
- PSYC 315 - Psychology of Sexual and Gender Diversity Credits: 3
- PSYC 392 - Cross Cultural Psychology Credits: 3

Electives

- LIBR 110 - Research.com Credits: 1 REQUIRED

Psychology (BS) - 3+3 Pre-Counseling

The Psychology program offers a Pre-Counseling 3+3 option for students interested in a career in Mental Health Counseling. Undergraduate students work with their academic advisor to complete courses needed to fulfill the requirements for both a Bachelor of Science degree and the entrance requirements for either of two Master of Arts programs: Clinical Mental Health Counseling or Student Affairs in Higher Education with College Counseling. Graduate study in both of these programs prepares students for licensure as a Professional Counselor. The Psychology program prepares students for graduate study by providing a strong basis in the biopsychosocial processes of human functioning. The first year of the Master of Arts program meets the requirements for the fourth year of the Bachelor of Science degree.

Students are required to maintain minimum Overall and Psychology GPAs of 3.0 in order to retain the major in Psychology. Students are required to earn a grade of C or higher in Introduction to Psychology (PSYC 105) in order to take all other Psychology courses. Students are required to earn a grade of C or higher in Psychological Science I: Research Methods (PSYC 231) or Introduction to Experimental Psychology/Lab (PSYC 325/326), and a grade of C or higher in Psychological Science II: Statistical Applications (PSYC 232) or Introduction to Behavioral Statistics (PSYC 221) in order to progress in the program. Each course can only be repeated once.

Psychology (BS) - 3+3 Pre-Counseling

3+3 Pre-Counseling program requirements:

- Students are required to maintain minimum Overall and Psychology GPAs of 3.0 in order to retain the major in Psychology. Students are required to earn a grade of C or higher in Introduction to Psychology (PSYC 105) in order to take all other Psychology courses. Students are required to earn a grade of C or higher in Introduction to Behavioral Statistics (PSYC 221) and Introduction to Experimental Psychology/Lab (PSYC 325/326) in order to progress in the program. Each course can only be repeated once.

Required Courses - Credits: 18-19

- PSYC 105 - Introduction to Psychology Credits: 3
- PSYC 221 - Introduction to Behavioral Statistics Credits: 3
- OR
- PSYC 232 - Psychological Science II: Statistical Applications Credits: 3
- PSYC 325 - Introduction to Experimental Psychology Credits: 3
- PSYC 326 - Experimental Psychology Laboratory Credits: 1

OR

- PSYC 231 - Psychological Science I: Research Methods Credits: 3
- PSYC 276 - Introduction to Abnormal Psychology Credits: 3
- PSYC 244 - Developmental Psychology Credits: 3
- PSYC 375 - Psychopathology of Adulthood Credits: 3

Required Professional Competency - Credits: 3

Choose 1 course:

- PSYC 420 - Community Service Practicum in Psychology Credits: 3
- PSYC 430 - Research Practicum in Psychology Credits: 3

Psychology Electives

Applied Psychology (Choose 2 courses) - Credits: 6

- PSYC 208 - Personality Credits: 3
- PSYC 304 - Theories of Counseling Credits: 3
- PSYC 306 - Introduction to Psychological Testing Credits: 3
- PSYC 318 - Psychopathy of Childhood and Adolescence Credits: 3
- PSYC 320 - Introduction to Clinical Psychology Credits: 3
- PSYC 475 - Behavior Modification Credits: 3

Biobehavioral (Choose 2 courses) - Credits: 6-8

- PSYC 233 - Sensation & Perception Credits: 3
- PSYC 289 - Positive Psychology Credits: 3
- PSYC 303 - Learning Credits: 4
- PSYC 311 - Introduction to Behavioral Neuroscience Credits: 3 **(will be 4 credits effective fall 2020)**
- PSYC 321 - Drugs and Behavior Credits: 3
- PSYC 334 - Health Psychology Credits: 3
- PSYC 338 - Cognitive Psychology Credits: 3
- PSYC 476 - Clinical Neuroscience Credits: 3

Developmental Psychology (Choose 2 courses) - Credits: 6

- PSYC 364 - Child and Adolescent Development Credits: 3
- PSYC 365 - Psychology of Aging Credits: 3
- PSYC 415 - Multicultural Identity Development Credits: 3
- PSYC 445 - Infant and Child Cognition Credits: 3
- PSYC 428 - Social and Emotional Development Across the Lifespan Credits: 3
- PSYC 477 - Developmental Neuroscience Credits: 3

Diversity Elective (Choose 1 course) - Credits: 3

- PSYC 240 - Human Sexual Behavior Credits: 3
- PSYC 300 - Psychology of Women, Gender and Culture Credits: 3
- PSYC 315 - Psychology of Sexual and Gender Diversity Credits: 3
- PSYC 392 - Cross Cultural Psychology Credits: 3

Electives

- LIBR 110 - Research.com Credits: 1 REQUIRED

Psychology (BS) - Counseling Psychology w/Chatham University (MSCP), Accelerated

The accelerated concentration within the Psychology BS will prepare students for the Master of Science in Counseling Psychology (MSCP) at Chatham University. The accelerated concentration is designed to give students an opportunity to enrich their undergraduate education with an intensive program in psychology and facilitate their entry into the M.S. Counseling Psychology at Chatham University. The course work is tailored to meet the needs of the student as both a Psychology major and in a career in counseling psychology.

The following are the Pre-Chatham MSCP accelerated concentration requirements. If any of the following criteria are not satisfied, the concentration designation will be removed from the student's record:

1. A minimum of a grade of C in each psychology course
2. A cumulative GPA of 3.5 or better on a 4.0 scale
3. All Psychology required courses taken through SRU, except Introduction to Psychology
4. Required Professional Competency must be taken at SRU
5. Psychology elective courses may be transferred
6. Recommended that the student meet with a faculty member from Chatham University (either in person, by phone or by email) during their sophomore or junior year

Psychology Required Courses: Credits 22

- PSYC 105 - Introduction to Psychology Credits: 3
- PSYC 231 - Psychological Science I: Research Methods Credits: 3
- PSYC 232 - Psychological Science II: Statistical Applications Credits: 3
- PSYC 244 - Developmental Psychology Credits: 3
- PSYC 276 - Introduction to Abnormal Psychology Credits: 3
- PSYC 311 - Introduction to Behavioral Neuroscience Credits: 3 **(will be 4 credits effective fall 2020)**
- PSYC 375 - Psychopathology of Adulthood Credits: 3

Required Professional Competency: Credits 9

- PSYC 450 - Field Placement Internship in Psychology Credits: 6

AND

- PSYC 485 - Senior Integration Seminar Credits: 3

Psychology electives

Applied Psychology - Choose 2 courses

- PSYC 208 - Personality Credits: 3
- PSYC 304 - Theories of Counseling Credits: 3
- PSYC 306 - Introduction to Psychological Testing Credits: 3
- PSYC 318 - Psychopathy of Childhood and Adolescence Credits: 3
- PSYC 320 - Introduction to Clinical Psychology Credits: 3
- PSYC 475 - Behavior Modification Credits: 3

Biobehavioral - Choose 1 course

- PSYC 233 - Sensation & Perception Credits: 3
- PSYC 289 - Positive Psychology Credits: 3
- PSYC 303 - Learning Credits: 4
- PSYC 321 - Drugs and Behavior Credits: 3
- PSYC 334 - Health Psychology Credits: 3
- PSYC 338 - Cognitive Psychology Credits: 3
- PSYC 476 - Clinical Neuroscience Credits: 3

Developmental Psychology - Choose 2 courses

- PSYC 364 - Child and Adolescent Development Credits: 3
- PSYC 365 - Psychology of Aging Credits: 3
- PSYC 415 - Multicultural Identity Development Credits: 3
- PSYC 477 - Developmental Neuroscience Credits: 3

Diversity Elective - Choose 1 course

- PSYC 240 - Human Sexual Behavior Credits: 3
- PSYC 300 - Psychology of Women, Gender and Culture Credits: 3
- PSYC 315 - Psychology of Sexual and Gender Diversity Credits: 3
- PSYC 392 - Cross Cultural Psychology Credits: 3

Additional courses at Chatham University

Twelve credits to complete the BS degree will be completed as part of the MS in Counseling Psychology program at Chatham University.

Electives

- LIBR 110 - Research.com Credits: 1 REQUIRED

Psychology (BS) - Developmental Concentration

The Developmental Track is designed to give students an opportunity to enrich their undergraduate education with an intensive program in Developmental Psychology. The program includes course work, hands-on experience, fieldwork, and research experience. The program consists of 52-57 credits to fulfill both the B.S in Psychology and the Developmental Track. Students have the choice to focus on the entire lifespan, infancy, childhood and adolescence, or adult and aging populations.

Whether you choose to enter the workforce or to attend graduate school, this track will prepare you well in many fields of psychology including clinical practice, research, and service agencies. Knowing the process of human development and how our biological, psychological, and social worlds impact developmental pathways will be an invaluable education that students can take with them on their journeys beyond SRU.

Students are required to maintain minimum Overall and Psychology GPAs of 3.0 in order to retain the major in Psychology. Students are required to earn a grade of C or higher in Introduction to Psychology (PSYC 105) in order to take all other Psychology courses. Students are required to earn a grade of C or higher in Psychological Science I: Research Methods (PSYC 231) or Introduction to Experimental Psychology/Lab (PSYC 325/326), and a grade of C or higher in Psychological Science II: Statistical Applications (PSYC 232) or Introduction to Behavioral Statistics (PSYC 221) in order to progress in the program. Each course can only be repeated once.

Major Requirements - Credits: 54-59

Required Courses - Credits: 10

Students must earn a grade of 'C' or higher in all required courses in order to progress in the program, and each course can only be repeated once. Enrollment in subsequent courses requiring one of these courses as a prerequisite will not be permitted until the minimum grade of 'C' is earned.

- PSYC 105 - Introduction to Psychology Credits: 3
- PSYC 231 - Psychological Science I: Research Methods Credits: 3
- PSYC 232 - Psychological Science II: Statistical Applications Credits: 3

Core Courses - Credits: 15

PSYC 364 is required for child and adolescent focus and PSYC 365 is required for adult and aging focus.

- PSYC 244 - Developmental Psychology Credits: 3 (Grade of B or higher required)
- PSYC 276 - Introduction to Abnormal Psychology Credits: 3

- PSYC 364 - Child and Adolescent Development Credits: 3
OR
- PSYC 365 - Psychology of Aging Credits: 3

- PSYC 375 - Psychopathology of Adulthood Credits: 3
- PSYC 475 - Behavior Modification Credits: 3

Core Elective - Credits: 9-11

Choose 3 courses.

- PSYC 303 - Learning Credits: 4
- PSYC 306 - Introduction to Psychological Testing Credits: 3
- PSYC 311 - Introduction to Behavioral Neuroscience Credits: 3 **(will be 4 credits effective fall 2020)**
- PSYC 338 - Cognitive Psychology Credits: 3
- PSYC 360 - History of Psychology Credits: 3
- PSYC 377 - Social Psychology Credits: 3

Diversity Elective - Credits: 3

Choose one course.

- PSYC 240 - Human Sexual Behavior Credits: 3
- PSYC 300 - Psychology of Women, Gender and Culture Credits: 3
- PSYC 315 - Psychology of Sexual and Gender Diversity Credits: 3
- PSYC 392 - Cross Cultural Psychology Credits: 3

Advanced Developmental Courses - Credits: 9

Choose 3 courses from the following:

- PSYC 415 - Multicultural Identity Development Credits: 3
- PSYC 428 - Social and Emotional Development Across the Lifespan Credits: 3
- PSYC 445 - Infant and Child Cognition Credits: 3
- PSYC 477 - Developmental Neuroscience Credits: 3

Required Professional Competency - Credits: 6-9

Must complete one course/group from the following.

- PSYC 451 - Research Capstone Internship Credits: 3 to 6 (to be taken twice for a total of 6 credits)
OR
- PSYC 450 - Field Placement Internship in Psychology Credits: 6
AND
- PSYC 485 - Senior Integration Seminar Credits: 3

Psychology Electives - Credits: 3

Choose one course from the following.

- PSYC 205 - Environmental Psychology Credits: 3
- PSYC 208 - Personality Credits: 3
- PSYC 240 - Human Sexual Behavior Credits: 3
- PSYC 289 - Positive Psychology Credits: 3
- PSYC 300 - Psychology of Women, Gender and Culture Credits: 3
- PSYC 315 - Psychology of Sexual and Gender Diversity Credits: 3

- PSYC 318 - Psychopathy of Childhood and Adolescence Credits: 3
- PSYC 321 - Drugs and Behavior Credits: 3
- PSYC 334 - Health Psychology Credits: 3
- PSYC 364 - Child and Adolescent Development Credits: 3
- PSYC 365 - Psychology of Aging Credits: 3
- PSYC 392 - Cross Cultural Psychology Credits: 3
- PSYC 476 - Clinical Neuroscience Credits: 3

Electives

- LIBR 110 - Research.com Credits: 1 REQUIRED
- PSYC 350 - Contemporary Topics in Psychological Science Credits: 1 optional

Psychology (BS) - Neuroscience Track

The Neuroscience Track is designed to provide students with the fundamental understanding, academic background, technical skills, and hands-on research experiences to successfully prepare students for graduate education in neuroscience related fields, prepare students for professional school (e.g., medical school), and compete for neuroscience-related jobs in the private and public sectors. In addition to academic science careers and medicine, neuroscientists can pursue a number of career paths including academic and pharmaceuticals research, program management within government and non-profit agencies, science writing and publishing, education, and science advocacy.

The Neuroscience Track will emphasize breadth and depth of knowledge, mentoring, hands-on laboratory and research experience, and the interdisciplinary connections in science. The program blends targeted liberal studies, psychology, biology and chemistry courses to provide students with an optimal interdisciplinary training. The track will culminate with a senior capstone research project in which students will propose a scientific question and research plan, implement, analyze and interpret data, and present the findings at the annual SRU Symposium for Creative, Scholarly and Research or an equivalent regional conference in the Fall or Spring.

Students are required to maintain minimum Overall and Psychology GPAs of 3.0 in order to retain the major in Psychology. Students are required to earn a grade of C or higher in Introduction to Psychology (PSYC 105) in order to take all other Psychology courses. Students are required to earn a grade of C or higher in Psychological Science I: Research Methods (PSYC 231) or Introduction to Experimental Psychology/Lab (PSYC 325/326), and a grade of C or higher in Psychological Science II: Statistical Applications (PSYC 232) or Introduction to Behavioral Statistics (PSYC 221) in order to progress in the program. Each course can only be repeated once.

Major Requirements - Credits: 54

Scientific Literacy & Foundations - Credits: 13

- PSYC 105 - Introduction to Psychology Credits: 3
- PSYC 231 - Psychological Science I: Research Methods Credits: 3
- PSYC 232 - Psychological Science II: Statistical Applications Credits: 3
- PSYC 311 - Introduction to Behavioral Neuroscience Credits: 3 (will be 4 credits effective fall 2020)

Depth of Knowledge & Making Connections - Credits: 26

Psychology Core Courses - Credits: 6

- PSYC 244 - Developmental Psychology Credits: 3
- PSYC 276 - Introduction to Abnormal Psychology Credits: 3

Psychology Neuroscience Content Courses - Credits: 12

- PSYC 233 - Sensation & Perception Credits: 3
- PSYC 303 - Learning Credits: 4
- PSYC 321 - Drugs and Behavior Credits: 3
- PSYC 338 - Cognitive Psychology Credits: 3

Interdisciplinary Core Courses - Credits: 7

- BIOL 250 - Genetics/Lab Credits: 4
- CHEM 201 - Organic Chemistry I Credits: 3

Depth of Knowledge, Technical Expertise & Research - Credits: 15

Psychology Neuroscience Content Courses - Credits: 6

- PSYC 476 - Clinical Neuroscience Credits: 3
- PSYC 477 - Developmental Neuroscience Credits: 3

Research Capstone - Credits: 6

Students Must Register For Two Semesters

- PSYC 451 - Research Capstone Internship Credits: 3 to 6
- PSYC 451 - Research Capstone Internship Credits: 3-6

Interdisciplinary Electives - Credits: 3

Choose one:

- BIOL 330 - Microbiology/Lab Credits: 3
- BIOL 335 - Cell Biology/Lab Credits: 3
- BIOL 370 - Molecular Biology/Lab Credits: 3

Electives

- LIBR 110 - Research.com Credits: 1 REQUIRED
- STAT 252 - Introduction to Statistical Modeling Credits: 3 RECOMMENDED

Psychology (BS) - Pre-Occupational Therapy 3+3

Major Requirements - Credits: 34-35

Psychology Required Courses - Credits: 19

Grade of A or B required.

- PSYC 105 - Introduction to Psychology Credits: 3
- PSYC 231 - Psychological Science I: Research Methods Credits: 3
- PSYC 232 - Psychological Science II: Statistical Applications Credits: 3
- PSYC 244 - Developmental Psychology Credits: 3
- PSYC 276 - Introduction to Abnormal Psychology Credits: 3
- PSYC 311 - Introduction to Behavioral Neuroscience Credits: 3 **(will be 4 credits effective fall 2020)**

Required Professional Competency - Credits: 3

- PSYC 420 - Community Service Practicum in Psychology Credits: 3

Psychology Elective Diversity - Credits 3

Choose one course.

- PSYC 300 - Psychology of Women, Gender and Culture Credits: 3
- PSYC 315 - Psychology of Sexual and Gender Diversity Credits: 3
- PSYC 392 - Cross Cultural Psychology Credits: 3

Psychology Elective Applied - Credits: 3

Choose one course.

- PSYC 304 - Theories of Counseling Credits: 3
- PSYC 306 - Introduction to Psychological Testing Credits: 3
- PSYC 318 - Psychopathy of Childhood and Adolescence Credits: 3
- PSYC 320 - Introduction to Clinical Psychology Credits: 3
- PSYC 375 - Psychopathology of Adulthood Credits: 3
- PSYC 475 - Behavior Modification Credits: 3

Psychology Elective Biobehavioral - Credits: 3-4

Choose one course.

- PSYC 233 - Sensation & Perception Credits: 3
- PSYC 289 - Positive Psychology Credits: 3
- PSYC 303 - Learning Credits: 4
- PSYC 321 - Drugs and Behavior Credits: 3
- PSYC 334 - Health Psychology Credits: 3
- PSYC 338 - Cognitive Psychology Credits: 3

Psychology Elective Development - Credits 3

Choose one course.

- PSYC 364 - Child and Adolescent Development Credits: 3
- PSYC 365 - Psychology of Aging Credits: 3
- PSYC 415 - Multicultural Identity Development Credits: 3
- PSYC 428 - Social and Emotional Development Across the Lifespan Credits: 3
- PSYC 445 - Infant and Child Cognition Credits: 3
- PSYC 477 - Developmental Neuroscience Credits: 3

Additional Occupational Therapy Prerequisite Courses - Creds: 3

- ERS 250 - Medical Terminology Credits: 3
OR
- HCAM 250 - Medical Terminology for Healthcare Administrators Credits: 3

Psychology (BS) - Pre-Physician Assistant 3+2

The Psychology Program offers a Pre-Physician Assistant 3+2 option for students interested in a career as a Physician Assistant. Undergraduate students work with their academic advisor to complete the courses needed to fulfill the requirements for both an undergraduate degree and the admissions requirements for the Master of Science in Physician Assistant Studies program.

The first year of the Master of Science in Physician Assistant Studies program meets the requirements for the fourth year of the undergraduate degree. Approved undergraduate majors in **Biology, Exercise Science, and Health Science-Public Health** are also available for the Pre-Physician Assistant 3+2 option. Other majors can be used to pursue the Master of Science in Physician Assistant Studies, but students cannot apply until after completing their undergraduate degree and they, too, must meet all Master of Science in Physician Assistant Studies admission criteria.

SLIPPERY ROCK UNIVERSITY PRE-PHYSICIAN ASSISTANT 3+2 REQUIREMENTS

If any of these requirements are not met, the 3+2 designation will be removed from the student's record:

1. A 3.0 or higher overall GPA must be maintained by the student.
2. The student can only be enrolled in the Pre-Physician Assistant 3+2 program for a maximum of three (3) years, full-time continuous enrollment (fall/spring).

Provision for Slippery Rock Pre-Physician Assistant 3+2 Students entering the Master of Science in Physician Assistant Studies program:

Should a Pre-Physician Assistant 3+2 student be unsuccessful in completing the 1st year (any of summer, fall, or spring terms) of the Physician Assistant program and wants to complete the original undergraduate degree, it is solely up to the discretion of the undergraduate program Department Chair to determine which, if any, Physician Assistant courses will count toward the completion of his/her undergraduate degree. In addition, students must complete any unfulfilled requirements of their undergraduate major. Students may still apply to the Physician Assistant Studies program with an earned Bachelor's degree.

For application requirements, please refer to Slippery Rock University's Physician Assistant Studies (Master of Science in Physician Assistant Studies) website.

Major Requirements - Credits: 34-35

Psychology Required Courses - Credits: 9

- PSYC 105 - Introduction to Psychology Credits: 3
- PSYC 231 - Psychological Science I: Research Methods Credits: 3
- PSYC 232 - Psychological Science II: Statistical Applications Credits: 3
- PSYC 244 - Developmental Psychology Credits: 3
- PSYC 276 - Introduction to Abnormal Psychology Credits: 3
- PSYC 311 - Introduction to Behavioral Neuroscience Credits: 3 **(will be 4 credits effective fall 2020)**

Required Professional Competency - Credits: 3

- PSYC 420 - Community Service Practicum in Psychology Credits: 3

Psychology Elective Diversity - Credits: 3

Choose one:

- PSYC 300 - Psychology of Women, Gender and Culture Credits: 3
- PSYC 315 - Psychology of Sexual and Gender Diversity Credits: 3
- PSYC 392 - Cross Cultural Psychology Credits: 3

Psychology Elective Applied - Credits: 3

Choose one:

- PSYC 304 - Theories of Counseling Credits: 3
- PSYC 306 - Introduction to Psychological Testing Credits: 3
- PSYC 318 - Psychopathy of Childhood and Adolescence Credits: 3
- PSYC 320 - Introduction to Clinical Psychology Credits: 3
- PSYC 375 - Psychopathology of Adulthood Credits: 3
- PSYC 475 - Behavior Modification Credits: 3

Psychology Elective Behavioral - Credits: 3-4

Choose one:

- PSYC 233 - Sensation & Perception Credits: 3
- PSYC 289 - Positive Psychology Credits: 3
- PSYC 303 - Learning Credits: 4
- PSYC 321 - Drugs and Behavior Credits: 3
- PSYC 334 - Health Psychology Credits: 3
- PSYC 338 - Cognitive Psychology Credits: 3

Psychology Elective Development - Credits: 3

Choose one:

- PSYC 364 - Child and Adolescent Development Credits: 3
- PSYC 365 - Psychology of Aging Credits: 3
- PSYC 415 - Multicultural Identity Development Credits: 3
- PSYC 428 - Social and Emotional Development Across the Lifespan Credits: 3
- PSYC 445 - Infant and Child Cognition Credits: 3
- PSYC 477 - Developmental Neuroscience Credits: 3

Additional Psychology Requirements

- If you choose to pursue Psychology 3+2 and are not accepted into the PA program, then additional coursework is required to complete a first major of Psychology.
- Students who do not meet minimum standards will be dismissed from the program. All dismissals are permanent.
- Please refer to the Psychology Pre-Physician Assistant 3+2 Curriculum Guide for all prerequisite requirements and policies.

Additional Physician Assistant Prerequisite Courses

- BIOL 217 - Anatomy and Physiology II/Lab Credits: 3
- BIOL 250 - Genetics/Lab Credits: 4
- BIOL 210 - Medical Microbiology/Lab Credits: 3
- BIOL 330 - Microbiology/Lab Credits: 3
- CHEM 108 - General Chemistry II Credits: 3
- CHEM 111 - General Chemistry I Lab Credits: 1
- ERS 250 - Medical Terminology Credits: 3
- OR
- PA 500 Applied Med Term for PA's Credit: 1

Electives

- LIBR 110 - Research.com Credits: 1 REQUIRED

Psychology (BS) - Psychology w/Chatham University (MAP), Accelerated

The accelerated concentration within the Psychology (BS) will prepare students for the Master of Arts in Psychology (MAP) at Chatham University. The accelerated concentration is designed to give students an opportunity to enrich their undergraduate education with an intensive program in psychology and facilitate their entry into the M.A. in Psychology at Chatham University. The course work is tailored to meet the needs of the student as both a Psychology major and in deepening their understanding of psychological science and theories.

The following are Psychology Chatham MAP accelerated requirements. If any of the following criteria are not satisfied, the concentration designation will be removed from the student's record:

1. A minimum of a grade of C in each psychology course
2. A cumulative GPA of 3.5 or better on a 4.0 scale

3. All Psychology required courses taken through SRU, except Introduction to Psychology
4. Required Professional Competency must be taken through SRU
5. Psychology elective courses may be transferred
6. Recommended that the student meet with a faculty member from Chatham University (either in person, by phone or by email) during their sophomore or junior year.

Psychology Required Courses:

- PSYC 105 - Introduction to Psychology Credits: 3
- PSYC 231 - Psychological Science I: Research Methods Credits: 3
- PSYC 232 - Psychological Science II: Statistical Applications Credits: 3
- PSYC 244 - Developmental Psychology Credits: 3
- PSYC 276 - Introduction to Abnormal Psychology Credits: 3
- PSYC 311 - Introduction to Behavioral Neuroscience Credits: 3 **(will be 4 credits effective fall 2020)**
- PSYC 375 - Psychopathology of Adulthood Credits: 3

Required Professional Competency: Credits 9

- PSYC 450 - Field Placement Internship in Psychology Credits: 6
- AND
- PSYC 485 - Senior Integration Seminar Credits: 3

Psychology electives

Applied Psychology - Choose 2 courses

- PSYC 208 - Personality Credits: 3
- PSYC 304 - Theories of Counseling Credits: 3
- PSYC 306 - Introduction to Psychological Testing Credits: 3
- PSYC 318 - Psychopathy of Childhood and Adolescence Credits: 3
- PSYC 320 - Introduction to Clinical Psychology Credits: 3
- PSYC 475 - Behavior Modification Credits: 3

Biobehavioral - Choose 1 course

- PSYC 233 - Sensation & Perception Credits: 3
- PSYC 289 - Positive Psychology Credits: 3
- PSYC 303 - Learning Credits: 4
- PSYC 321 - Drugs and Behavior Credits: 3
- PSYC 334 - Health Psychology Credits: 3
- PSYC 338 - Cognitive Psychology Credits: 3
- PSYC 476 - Clinical Neuroscience Credits: 3

Developmental Psychology - Choose 2 courses

- PSYC 364 - Child and Adolescent Development Credits: 3
- PSYC 365 - Psychology of Aging Credits: 3
- PSYC 415 - Multicultural Identity Development Credits: 3
- PSYC 477 - Developmental Neuroscience Credits: 3

Diversity Elective - Choose 1 course

- PSYC 240 - Human Sexual Behavior Credits: 3
- PSYC 300 - Psychology of Women, Gender and Culture Credits: 3
- PSYC 315 - Psychology of Sexual and Gender Diversity Credits: 3
- PSYC 392 - Cross Cultural Psychology Credits: 3

Additional courses at Chatham University

Twelve credits to complete the BS degree will be completed as part of the MA in Psychology program at Chatham University.

Electives

- LIBR 110 - Research.com Credits: 1 REQUIRED

Public Health and Social Work

Public Health and Social Work

Office: 111 Dinger Building

Phone: 724-738-2267

Chair

Michael Cleary

Secretary

Vonda Kuhn

Faculty

Thomas Bechard, Larry Breitenstein, Michael Cleary, Rhiannon Condon, Kimberly Forrest, Marcy Leeds, Christophas Walker, Adelle Williams

Health Science - Public Health (BS)

Public Health Program

Public Health is a discipline in which professionals deliver health information and programs within the community setting. Graduates of this program have a broad based background in the field of health that prepares them for entry level positions in health education, health promotion, health data management or for further graduate study in a health-related field.

Upon completion of this program our students are eligible to sit for the Certified Health Education Specialist examination, which is a national credentialing examination for people who wish to practice health education in a community (non-public school) setting. Today, the Certified Health Education Specialist credential is often preferred or even required for many community health education positions. Graduates who complete our Public Health program successfully pass the Certified Health Education Specialist examination at a rate well above the national average. Recent graduates have entered positions in state and local health departments, community based wellness programs, voluntary health organizations such as the American Heart Association or American Cancer Society, and federal government health programs, and health insurance companies. Graduates also enter graduate programs in physical or occupational therapy, physicians assistant, nutrition, and public health.

Students are encouraged to take additional coursework or minors in complementary areas of study such as gerontology, Spanish, psychology or business. The program culminates in a 12-credit internship, which provides hands-on experiences and further insight into career opportunities in public health. Students may select their own internship site or may choose from a database of previously used sites. It is through this internship experience that students actually identify the branch of public health in which they would like to practice. Students are required to select a major project for their internship experience that demonstrates mastery of entry-level professional skills. Frequently interns remain at the sites as employees following their internships.

Public Health faculty members have on-going research projects in which advanced level students can become involved. Students help professors analyze data and prepare professional conference presentations, which the student actually presents under the mentorship of the faculty member. Other student activities include the Pennsylvania Public Health Association Collegiate Chapter and the peer health education program run by the SRU student health service.

Public Health College Wide Requirements

- BIOL 216 - Anatomy and Physiology I /Lab Credits: 3
- CHEM 104 - Introduction Chemistry I Credits: 3
- OR
- CHEM 107 - General Chemistry I Credits: 3
- CHEM 111 - General Chemistry I Lab Credits: 1
- STAT 152 - Elementary Statistics I Credits: 3

Requirements for the Major - Credits: 60

Required Courses - Credits: 51

- BIOL 210 - Medical Microbiology/Lab Credits: 3
- HLTH 103 - Health and Behavior Change Credits: 3
- HLTH 210 - Introduction to Public Health Credits: 3
- HLTH 301 - Introduction to Health Education Credits: 3
- HLTH 309 - Introduction to the Study of Disease Credits: 3
- HLTH 310 - Environmental Health Credits: 3
- HLTH 311 - International Health Credits: 3

- HLTH 312 - Data Management for Health Science Credits: 3
- HLTH 313 - Biostatistics Credits: 3
- HLTH 314 - Nutrition and Health Credits: 3
- HLTH 406 - Program Planning and Evaluation Credits: 3
- HLTH 410 - Epidemiology Credits: 3
- HLTH 440 - Public Health Seminar Credits: 3
- HLTH 450 - Internship Credits: 1 to 12

Internship Required:

Cumulative GPA of 2.500 and program GPA of 2.500 required for internship assignments, which are during the summer.

Internship requirements are available from the Department of Public Health and Social Work.

Choose 3 Courses from the following - Credits: 9

- HLTH 203 - Public Health and Physical Activity Credits: 3
- HLTH 211 - Women's Health Issues Credits: 3
- HLTH 316 - Human Sexuality Credits: 3
- GERO 265 - Aging and the Older Person Credits: 3
- GERO 414 - Death and Dying Credits: 3
- HCAM 230 - The US Healthcare System Credits: 3
- HLTH 424 - Nutrition and Exercise Credits: 3
- HLTH 408 - Public Health Administration Credits: 3

Health Science - Public Health (BS) - Pre-Physician Assistant 3+2

The Health Science - Public Health Program offers a Pre-Physician Assistant 3+2 option for students interested in a career as a Physician Assistant. Undergraduate students work with their academic advisor to complete the courses needed to fulfill the requirements for both an undergraduate degree and the admissions requirements for the Master of Science in Physician Assistant Studies program.

The first year of the Master of Science in Physician Assistant Studies program meets the requirements for the fourth year of the undergraduate degree. Approved undergraduate majors in **Biology, Exercise Science, and Psychology** are also available for the Pre-Physician Assistant 3+2 option. Other majors can be used to pursue the Master of Science in Physician Assistant Studies, but students cannot apply until after completing their undergraduate degree and they, too, must meet all Master of Science in Physician Assistant Studies admission criteria.

SLIPPERY ROCK UNIVERSITY PRE-PHYSICIAN ASSISTANT 3+2 REQUIREMENTS

If any of these requirements are not met, the 3+2 designation will be removed from the student's record:

1. A 3.0 or higher overall GPA must be maintained by the student.
2. The student can only be enrolled in the Pre-Physician Assistant 3+2 program for a maximum of three (3) years, full-time continuous enrollment (fall/spring).

Provision for Slippery Rock Pre-Physician Assistant 3+2 Students entering the Master of Science in Physician Assistant Studies program:

Should a Pre-Physician Assistant 3+2 student be unsuccessful in completing the 1st year (any of summer, fall, or spring

terms) of the Physician Assistant program and wants to complete the original undergraduate degree, it is solely up to the discretion of the undergraduate program Department Chair to determine which, if any, Physician Assistant courses will count toward the completion of his/her undergraduate degree. In addition, students must complete any unfulfilled requirements of their undergraduate major. Students may still apply to the Physician Assistant Studies program with an earned Bachelor's degree.

For application requirements, please refer to Slippery Rock University's Physician Assistant Studies (Master of Science in Physician Assistant Studies) website.

Major Requirements - Credits: 39

Required Courses in Public Health - Credits: 33

- HLTH 103 - Health and Behavior Change Credits: 3
- HLTH 210 - Introduction to Public Health Credits: 3
- HLTH 301 - Introduction to Health Education Credits: 3
- HLTH 309 - Introduction to the Study of Disease Credits: 3
- HLTH 310 - Environmental Health Credits: 3
- HLTH 311 - International Health Credits: 3
- HLTH 312 - Data Management for Health Science Credits: 3
- HLTH 313 - Biostatistics Credits: 3
- HLTH 314 - Nutrition and Health Credits: 3
- HLTH 406 - Program Planning and Evaluation Credits: 3
- HLTH 410 - Epidemiology Credits: 3

Human Institutions/Interpersonal Relationships - Credits: 3

- PSYC 105 - Introduction to Psychology Credits: 3

Required Course Outside of Major Department - Credits: 3

- BIOL 210 - Medical Microbiology/Lab Credits: 3

College Wide Requirements - Credits: 13

- BIOL 216 - Anatomy and Physiology I /Lab Credits: 3
- BIOL 217 - Anatomy and Physiology II/Lab Credits: 3
- CHEM 107 - General Chemistry I Credits: 3
- CHEM 111 - General Chemistry I Lab Credits: 1
- STAT 152 - Elementary Statistics I Credits: 3

Additional Physician Assistant Prerequisite Admission Requirements

If you choose to pursue Pre-Physician Assistant 3+2 Public Health and are not accepted into the PA program, then additional coursework is required to complete a first major of Public Health. Please refer to the Public Health Curriculum Guide.

Please refer to Health Science-Public Health Pre-Physician Assistant 3+2 Curriculum Guide for all prerequisite requirements and policies.

- BIOL 104 - Principles of Biology/Lab Credits: 4
 - BIOL 250 - Genetics/Lab Credits: 4
 - CHEM 107 - General Chemistry I Credits: 3
 - CHEM 111 - General Chemistry I Lab Credits: 1
 - CHEM 108 - General Chemistry II Credits: 3
 - CHEM 112 - General Chemistry II Lab Credits: 1
 - CHEM 201 - Organic Chemistry I Credits: 3
 - ERS 250 - Medical Terminology Credits: 3
- OR
- PA 500 Applied Med Term for PA's Credit: 1

Health Science - Public Health Pre-Occupational Therapy SRU 3+3

Major Requirements - Credits: 30

Required Courses in Public Health - Credits: 30

- HLTH 103 - Health and Behavior Change Credits: 3
- HLTH 210 - Introduction to Public Health Credits: 3
- HLTH 301 - Introduction to Health Education Credits: 3
- HLTH 310 - Environmental Health Credits: 3
- HLTH 311 - International Health Credits: 3
- HLTH 312 - Data Management for Health Science Credits: 3
- HLTH 313 - Biostatistics Credits: 3
- HLTH 314 - Nutrition and Health Credits: 3
- HLTH 406 - Program Planning and Evaluation Credits: 3
- HLTH 410 - Epidemiology Credits: 3

College Wide Requirements - Credits: 16

- BIOL 216 - Anatomy and Physiology I /Lab Credits: 3
- BIOL 217 - Anatomy and Physiology II/Lab Credits: 3
- CHEM 104 - Introduction Chemistry I Credits: 3
- PHYS 201 - Elements of Physics I/ Lab Credits: 4
- STAT 152 - Elementary Statistics I Credits: 3

Additional Occupational Therapy Prerequisite Courses - Creds: 9

- ERS 250 - Medical Terminology Credits: 3
OR
- HCAM 250 - Medical Terminology for Healthcare Administrators Credits: 3
- INDP 318 - Research Methods in Interdisciplinary Studies Credits: 3
OR
- SOWK 318 - Research Methods Credits: 3
- PSYC 276 - Introduction to Abnormal Psychology Credits: 3

Health Science-Public Health (BS) - Physical Therapy 3+3

Public Health and Social Work

The Health Science-Public Health Program offers a Pre-Physical Therapy 3+3 option for students interested in a career as a Physical Therapist. Undergraduate students work with their academic advisor to complete the courses needed to fulfill the requirements for both an undergraduate degree and the admissions requirements for the Doctor of Physical Therapy program.

The first year of the Doctor of Physical Therapy program meets the requirements for the fourth year of the undergraduate degree. Approved undergraduate majors in **Biology, Exercise Science, and Recreational Therapy** are also available for the Pre-Physical Therapy 3+3 option. Other majors can be used to pursue the Doctor of Physical Therapy, but students cannot apply until after completing their undergraduate degree and they, too, must meet all Doctor of Physical Therapy admission criteria.

SLIPPERY ROCK UNIVERSITY PRE-PHYSICAL THERAPY 3+3 REQUIREMENTS

If any of these requirements are not met, the 3+3 designation will be removed from the student's record:

1. A 3.0 or higher overall GPA must be maintained by the student.
2. The student can only be enrolled in the Pre-Physical Therapy 3+3 program for a maximum of three (3) years, full-time continuous enrollment (fall/spring).

Provision for Slippery Rock Pre-PHYSICAL THERAPY 3+3 Students entering the Doctor of Physical Therapy program:

Should a Pre-Physical Therapy 3+3 student be unsuccessful in completing the 1st year (any of summer, fall, or spring terms) of the Doctor of Physical Therapy program and wants to complete the original undergraduate degree, it is solely up to the discretion of the undergraduate program Department Chair to determine which, if any, Physical Therapy courses will count toward the completion of his/her undergraduate degree. In addition, students must complete any unfulfilled requirements of their undergraduate major. Students may still apply to the Doctor of Physical Therapy program with an earned Bachelor's degree.

For application requirements, please refer to Slippery Rock University's Doctor of Physical Therapy program website.

Degree Completion in Six Years Health Science (Public Health) (BS)

Freshman Year - Total Hours: 31

- Liberal Studies Credits: 6
- BIOL 216 - Anatomy and Physiology I /Lab Credits: 3
- BIOL 217 - Anatomy and Physiology II/Lab Credits: 3
- ENGL 101 - Introduction to College Writing Credits: 3
- ENGL 103 - College Writing II Credits: 3
- HLTH 103 - Health and Behavior Change Credits: 3

- HLTH 210 - Introduction to Public Health Credits: 3
- STAT 152 - Elementary Statistics I Credits: 3
- PSYC 105 - Introduction to Psychology Credits: 3

Sophomore Year - Total Hours: 29

- Liberal Studies Credits: 6
- CHEM 107 - General Chemistry I Credits: 3
- CHEM 108 - General Chemistry II Credits: 3
- CHEM 111 - General Chemistry I Lab Credits: 1
- CHEM 112 - General Chemistry II Lab Credits: 1
- COMM 200 - Civil Discourse Credits: 3
- ENGL 104 - Critical Reading Credits: 3
- HLTH 314 - Nutrition and Health Credits: 3
- PSYC 240 - Human Sexual Behavior Credits: 3
- or
- PSYC 300 - Psychology of Women, Gender and Culture Credits: 3
- or
- PSYC 338 - Cognitive Psychology Credits: 3
- or
- PSYC 244 - Developmental Psychology Credits: 3
- or
- PSYC 377 - Social Psychology Credits: 3

Junior Year - Total Hours: 30

- Liberal Studies/Electives Credits: 7
- HLTH 301 - Introduction to Health Education Credits: 3
- HLTH 309 - Introduction to the Study of Disease Credits: 3
- HLTH 312 - Data Management for Health Science Credits: 3
- HLTH 313 - Biostatistics Credits: 3
- HLTH 410 - Epidemiology Credits: 3
- PHYS 201 - Elements of Physics I/ Lab Credits: 4
- PHYS 202 - Elements of Physics II/ Lab Credits: 4

Senior Year

DEFINED BY THE DPT PROGRAM

Minor in Gerontology

Coordinator

Adelle Williams

Public Health and Social Work Department

106 Jack Dinger Building

Phone: 724-738-2855

Gerontology is an interdisciplinary specialization that focuses on aging and the aging process. This specialization is designed to enhance the understanding of aging and enrich interactions among generations. It is a valuable adjunct for those preparing to work directly with, or indirectly for, older persons. Employment opportunities for students who have academic preparation in gerontology are available in community agencies, long term care facilities, hospitals, assisted living facilities, hospices, retirement villages, senior centers, and mental health facilities among others. The program is open to students in any major.

Students conduct an internship in an organization which provides services to older adults and students actively participate in a service learning project. Opportunities to participate in campus and community activities are available.

Sigma Phi Omega, the national gerontology honorary society recognized students' exemplary scholastic accomplishments in the field of aging. Undergraduate and graduate students are eligible to apply. The Anne Bicknell Scholarship is offered (based upon available funding) and an application, essay and references are required.

Advisement

Students planning to complete the program in gerontology will declare a major within a department. Major responsibility for advisement will rest within this department. However, the coordinator will assist students in the selection of gerontology courses and internship sites to fulfill the requirements for the minor in gerontology. Students must assume responsibility for fulfilling all requirements for graduation.

Requirements for the Minor - Credits: 18

Students must complete a total of five 3-credit courses and conduct a 3-credit internship in an agency/organization which provides services to older adults. However, the gerontology coordinator will assist students in the selection of courses and internship sites to fulfill the requirements for a minor in gerontology.

To enter the gerontology program, students must submit an application form requiring the adviser's signature and a minor declaration form. A quality point average of 2.500 is required at the end of the semester prior to internship. Students are to notify the gerontology office when all requirements have been met and prior to application for graduation.

Required Gerontology Courses - Credits: 6

- GERO 265 - Aging and the Older Person Credits: 3
- GERO 450 - Gerontology Internship Credits: 3 to 12

Health/Science Courses - Credits: 3-6

Choose at least one of the following:

- ERS 434 - Physiology of Aging and Physical Activity Credits: 3
- HLTH 314 - Nutrition and Health Credits: 3
- NURS 498 - Selected Topics Credits: 3
- RCTH 420 - Recreational Therapy for Older Adults Credits: 3
- PE 364 - Biomechanics of Individuals with Disabilities Credits: 3

Psychology / Sociology Courses - Credits: 3-6

Choose at least one of the following:

- GERO 414 - Death and Dying Credits: 3
- INDP 342 - Sociology of Aging Credits: 3
- PSYC 365 - Psychology of Aging Credits: 3

Additional Gerontology Courses - Credits: 3-6

The following are highly recommended.

- GERO 425 - Women and Aging Credits: 3
- GERO 465 - Seminar in Gerontology Credits: 3

Minor in Public Health

Public Health and Social Work Department

Requirements for the Minor - Credits: 18

Students in related disciplines find that a minor in Public Health opens additional opportunities in non-profit community agencies, departments of health, work-site health promotion, health care settings and health voluntaries such as the American Cancer Society, American Heart Association, etc.

Required Courses - Credits: 6

- HLTH 103 - Health and Behavior Change Credits: 3
- HLTH 210 - Introduction to Public Health Credits: 3

Choose 4 courses from the following - Credits: 12

- HLTH 301 - Introduction to Health Education Credits: 3
- HLTH 309 - Introduction to the Study of Disease Credits: 3
- HLTH 310 - Environmental Health Credits: 3
- HLTH 311 - International Health Credits: 3
- HLTH 312 - Data Management for Health Science Credits: 3
- HLTH 313 - Biostatistics Credits: 3
- HLTH 314 - Nutrition and Health Credits: 3
- HLTH 406 - Program Planning and Evaluation Credits: 3
- HLTH 410 - Epidemiology Credits: 3
- HLTH 440 - Public Health Seminar Credits: 3

Minor in Social Work

Minor in Social Work - Credits: 18

Required Courses - Credits: 9

- SOWK 251 - Introduction to Social Work Credits: 3
- SOWK 328 - Human Behavior and the Social Environment I Credits: 3
- SOWK 340 - Social Welfare Institutions Credits: 3

Social Work Electives - Credits: 9

Choose three courses from the following Social Work electives (students should be sure that at least one of these is 300 level or higher)

- SOWK 105 - Human Diversity Credits: 3
- SOWK 200 - Introduction to Child Welfare Credits: 3
- SOWK 230 - Social Justice and Equality Credits: 3
- SOWK 300 - Crisis Intervention Credits: 3
- SOWK 310 - Animal Assisted Interventions Credits: 3
- SOWK 311 - Clinical and Academic Documentation for Social Work Credits: 3
- SOWK 318 - Research Methods Credits: 3
- SOWK 319 - Statistical Methods Credits: 3
- SOWK 321 - Forensic Social Work Credits: 3
- SOWK 334 - Clinical Perspectives on DSM Diagnoses Credits: 3

Social Work (BS)

Social Work

Social work is a profession that applies knowledge about people and society to help persons, groups, or communities meet a diversity of needs, solve a wide range of problems, promote social justice, and assist people in becoming empowered. The baccalaureate program in social work prepares students for generalist social work practice. As beginning professional social workers, graduates typically work in the areas of child welfare, juvenile and adult corrections, public assistance, health and mental health, aging domestic violence, and chemical dependency, among others.

The undergraduate program in social work awards a Bachelor of Science degree in Social Work and is accredited by the Council on Social Work Education, the national accrediting agency for social work. Accreditation standards require a solid core of courses on social welfare issues and policies, social work practice skills, basic social science research methods, and a broad background in the liberal arts with special emphasis on psychology, biology, economics, politics, sociology, organization, and diverse ethnic groups. In fulfilling the academic requirements for social work, students must also uphold the values of the profession of Social Work as expressed in the National Association of Social Work's Code of Ethics.

While Pennsylvania requires a master's degree to become a licensed social worker, some states license social workers holding a bachelor's degree. Since requirements vary by state, please check with the licensing board in the state you intend to practice.

Requirements for the Major - Credits: 54

C or better grade as the minimum requirement of the three Social Work Practice courses in order to advance in the program.

Students must have a cumulative GPA of 2.5 or better for admission to the program.

Core Course - Credits: 3

Choose one 3 credit course

- PSYC 105 - Introduction to Psychology Credits: 3
- INDP 201 - Principles of Sociology Credits: 3

Required Core Courses - Credits: 39

- SOWK 105 - Human Diversity Credits: 3
- SOWK 251 - Introduction to Social Work Credits: 3
- SOWK 328 - Human Behavior and the Social Environment I Credits: 3
- SOWK 340 - Social Welfare Institutions Credits: 3
- SOWK 355 - Social Work Practice with Individuals Credits: 3
- SOWK 356 - Social Work Practice with Groups and Families Credits: 3
- SOWK 357 - Social Work Practice with Organizations and Communities Credits: 3
- SOWK 407 - Social Policy Issues Credits: 3
- SOWK 450 - SOWK Internship Credits: 12
- SOWK 460 - Social Work Integrative Seminar Credits: 3

Research Methods - Credits: 6

- SOWK 318 - Research Methods Credits: 3
- SOWK 319 - Statistical Methods Credits: 3

Social Work Electives - Credits: 6

Choose two 6 credit courses

- SOWK 200 - Introduction to Child Welfare Credits: 3
- SOWK 230 - Social Justice and Equality Credits: 3
- SOWK 300 - Crisis Intervention Credits: 3
- SOWK 310 - Animal Assisted Interventions Credits: 3
- SOWK 311 - Clinical and Academic Documentation for Social Work Credits: 3
- SOWK 321 - Forensic Social Work Credits: 3
- SOWK 334 - Clinical Perspectives on DSM Diagnoses Credits: 3

College of Liberal Arts

Office: 104 Strain Behavioral Science Building
Phone: 724-738-4863

Dean

Dan Bauer

Assistant to the Dean

Timothy Oldakowski

Administrative Assistant

Karen Hogg

Secretary

Cathy Howryla

Fine and Performing Arts Division

Art

Dance

Music

Theatre

Humanities Division

English

History

Modern Languages and Cultures

Philosophy

Social Sciences Division

Criminology and Security Studies

Interdisciplinary Programs

Political Science

Programs

Asian Studies

Gender Studies

Language Center

The College of Liberal Arts features baccalaureate and postbaccalaureate degrees, programs, and courses that acquaint students with fields of knowledge and intellectual skills vital for the function of a free society. Students encounter a broad range of questions and ideas focusing on human responses to moral, historical, aesthetic, creative and philosophical problems.

The college offers on-line masters programs in Criminal Justice, English, History and Music Therapy. At the forefront of interdisciplinary studies, the college offers interdisciplinary minors in Asian Studies, English, Modern Languages, Philosophy, and Gender Studies, as well as a program in Pre-Law. The arts are signature programs at the university with the department of Art, Dance, Music and Theatre holding national accreditation. All departments in the college incorporate valuable service-learning, field experience, internships, study-abroad opportunities and co-curricular activities in recognition that substantial learning takes place both inside and outside the classroom. With strong ties to the Slippery Rock and surrounding communities, the college is host to significant cultural institutions including the 1822 Old Stone House, the Center for Public Humanities, the Kaleidoscope Arts Festival, the Martha Gault Gallery, and SLAB (the Sound and Literary Art Book). Home of the Frederick Douglass Institute, the college is dedicated to the advancement of campus diversity, multicultural studies and civic engagement through yearly workshops, visiting scholars/artists, exhibits, and educational trips.

Honors

Honors Program

Office: 336 Patterson Hall

Phone: 724-738-4003

Email: honorscollege@sru.edu

Director

Dr. Jason Hilton

Secretary

Rachelle Drake

Slippery Rock University's Honors Program is designed to enrich the university experience by fostering a student-centered learning environment and helping each student to develop his or her individual potential as a life-long learner. Honors courses emphasize reading, writing, and research through discussion-based classes that enable students to explore subjects in greater depth. Students also enhance their education through service-learning opportunities. The Honors Program provides each student opportunities to take full advantage of their time spent at Slippery Rock University through a variety of extra-curricular and travel opportunities.

All honors courses fulfill liberal studies requirements, which means that participation in the program will not extend a student's stay at Slippery Rock University. To graduate with honors designation, students must complete a minimum of seven honors courses (21 credits) while maintaining an overall GPA of 3.25 or higher (3.4 or higher for Honors scholarship recipients). Students can select from a variety of specially-designed courses in the following departments: Communication, English, Geography, History, Mathematics, Philosophy, Political Science, and Psychology.

On occasion, Great Books honors courses are offered. These courses are geared toward in-depth study in a specialized area, and typically involve international travel. Content in these seminars varies and has included Ancient Greek Culture (Greece), The Holocaust (Germany), Latin American History (Panama), Galileo (Florence), and Irish Playwrights (Ireland).

Students may also fulfill Honors requirements through a variety of activities in place of Honors courses: research projects, conference presentations, publications, dual majors and minors, study abroad, and the Compass leadership program.

Honors students enjoy a number of benefits, both in and out of the classroom. These include: smaller honors courses, capped at an enrollment of 25 students per class; early registration privileges; learning experiences through regional, national, and international travel. Every fall, Honors Program students have the opportunity to participate in the National Collegiate Honors Council (NCHC) conference, held in cities such as Denver, New Orleans, Boston, Phoenix, and San Antonio. In addition, courses are offered each spring and summer that provide opportunities for travel abroad. In the past, students have travelled to London, Germany, Turkey, South Africa, Greece, South Africa, Mexico, and Cuba.

The program is open to qualified students in all majors. Interested students need to submit a separate application to the Honors Program. The application requires a two-page essay about their interest in the program and a résumé of extracurricular activities and can be completed online. Interested students should call 724-738-4003, e-mail honorscollege@sru.edu, or visit the website, www.sru.edu/honorscollege.

Art

Art Building I
724-738-2020

Art

Students who major in art will develop the capacity to make tangible their aesthetic responses to experience. By increasing awareness of themselves, their environment and their culture, and by learning to think and act creatively, students prepare themselves for a life enriched through art. The broadly based Bachelor of Arts program with a concentration in art provides a diversified background suitable to generalist applications and an excellent foundation for further study in various disciplines. The Bachelor of Fine Arts degree program is for students interested in art as a profession. It is an intensive program of study aimed at developing a foundation of attitudes, traits and abilities with which to begin a lifetime as an artist. Emphasis is placed on students' personal experiences as the source of artistic motivation. The broadly based liberal studies curriculum provides students with a diversified background, which, in concert with their professional training, should lead to a successful career in art and applied vocations.

Chair

Jon Shumway

Secretary

Christine Byrd

Faculty

Tricia Bishop, Pierre Bowins, Thomas Como, Heather Hertel, Sean Macmillan, Katherine Mickle, Kurt Pitluga, Jon Shumway, Barbara Westman

"The encouragement and support I received from the faculty and students in the Art Department at Slippery Rock University enabled me to gain the confidence to make it as a professional artist. The instruction I received provided both a practical and philosophic foundation that continues to contribute to my success as artist and teacher."

John Greco
BA '76
Professor of Art
Santa Monica College

"Being creative and skilled are the keys to surviving in today's fast paced environment. The experience in the Art Department at Slippery Rock University prepared me to succeed in graduate school and in my professional career where constant change challenges all assumptions."

Dalton Good
BFA '81
Director of Publications
Point Park College

The Art Department sponsors regional and national travel opportunities to visit galleries and museums in cities such as Boston, Philadelphia, Toronto, New York, Washington, D.C. or Chicago each semester. Faculty organize day trips to exhibits in Cleveland and Pittsburgh several times each term. The department has developed exchange programs with excellent art schools in Europe and Costa Rica to provide students with the opportunity for an international experience. Students have the opportunity to spend a semester studying and traveling in Europe or Costa Rica, experiencing different cultures. More than 100 students have participated in these exchanges.

Art faculty periodically take students to various professional society meetings such as the National Society for Education in Ceramic Arts, International Sculpture Society and Southern Graphics Society annual meetings. At these meetings students meet and get to know professionals in their field. They have an opportunity to attend lectures and demonstrations on the latest techniques being developed.

Each term, in our master studio program, the Art Department has visiting artists come to campus for workshops, lectures and critiques of student work. This program enables the student to know and experience the broadest possibilities in their own work.

Each year, the final exhibition in the campus gallery is devoted to an exhibit of student art. For this show, an invited juror judges the show, awarding prizes and scholarships for the coming year.

Students may elect to do an internship in their junior or senior year. Internships allow the student to sharpen skills learned in the classroom in a professional, working atmosphere. Students complete internships in various museums and galleries, and in photography, architectural, ceramic and graphic design studios. While interning, students gain a working knowledge in their chosen field, make contacts with professional artists, and learn to use the ideas and techniques practiced in the classroom.

The Art Society, a student run Art organization, coordinates field trips to special art exhibitions, raises monies for entry fees to local art exhibitions and sponsors exhibitions of their work to show in local galleries.

Art (BA)

Art Department

Requirements for the Major - Credits: 39

Required: 9 credits of a modern language or competency at the 103 level

Required Courses

Required Art History - Credits: 3

- ART 225 - Overview of Western Art Credits: 3

Art History Elective - 3 credits

Pre-requisite: ART 225

- ART 325 - North American Art History Credits: 3
- ART 335 - The Renaissance Tradition Credits: 3
- ART 345 - Foundations of Modern Art Credits: 3
- ART 355 - Early Modern Art Credits: 3
- ART 365 - Art Since 1945 Credits: 3

Studio Courses - Credits: 33

Required Course - 3 credits

- ART 105 - Basic Studio Drawing Credits: 3

3 Credits From:

- ART 100 - 2-D Design Credits: 3
- ART 101 - 3-D Design Credits: 3

3 Credits From:

- ART 106 - Basic Studio Painting Credits: 3
- ART 107 - Basic Studio Photography Credits: 3
- ART 108 - Basic Studio Printmaking Credits: 3
- ART 109 - Basic Studio Metalsmithing Credits: 3
- ART 110 - Basic Studio Sculpture Credits: 3
- ART 111 - Basic Studio Fiber Art Credits: 3
- ART 112 - Basic Studio Ceramics Credits: 3
- ART 114 - Basic Studio Digital Media Credits: 3

2D Elective - 3 credits

Pre-requisite: 3 credits from any 100 level studio course

- ART 205 - Intermediate Studio Drawing Credits: 3
- ART 206 - Intermediate Studio Painting Credits: 3
- ART 207 - Intermediate Studio Photography Credits: 3
- ART 208 - Intermediate Studio Printmaking Credits: 3
- ART 213 - Intermediate Studio Graphic Design Credits: 3
- ART 214 - Intermediate Studio Digital Media Credits: 3

3D Elective - 3 credits

Pre-requisite: 3 credits from any 100 level studio

- ART 209 - Intermediate Studio Metalsmithing Credits: 3
- ART 210 - Intermediate Studio Sculpture Credits: 3
- ART 211 - Intermediate Studio Fiber Art Credits: 3
- ART 212 - Intermediate Studio Ceramics Credits: 3

9 Credits Selected From:

Pre-requisite: 6 credits from any 200 level studio; can repeat any class twice.

- ART 305 - Advanced Studio Drawing Credits: 3
- ART 306 - Advanced Studio Painting Credits: 3
- ART 307 - Advanced Studio Photography Credits: 3
- ART 308 - Advanced Studio Printmaking Credits: 3
- ART 309 - Advanced Studio Metalsmithing Credits: 3
- ART 310 - Advanced Studio Sculpture Credits: 3
- ART 311 - Advanced Studio Fiber Art Credits: 3
- ART 312 - Advanced Studio Ceramics Credits: 3
- ART 313 - Advanced Studio Graphic Design Credits: 3
- ART 314 - Advanced Studio Digital Media Credits: 3

9 Credits Selected From:

Pre-requisite: 6 credits from any 300 level studio; can repeat any class twice

- ART 405 - Senior Studio Drawing Credits: 3
- ART 406 - Senior Studio Painting Credits: 3
- ART 407 - Senior Studio Photography Credits: 3
- ART 408 - Senior Studio Printmaking Credits: 3
- ART 409 - Senior Studio Metalsmithing Credits: 3
- ART 410 - Senior Studio Sculpture Credits: 3
- ART 411 - Senior Studio Fiber Art Credits: 3
- ART 412 - Senior Studio Ceramics Credits: 3
- ART 413 - Senior Studio Graphic Design Credits: 3
- ART 414 - Senior Studio Digital Media Credits: 3

Art (BFA)

Requirements for the Major - Credits: 78

Required Art Courses - 18 credits

- ART 100 - 2-D Design Credits: 3
- ART 101 - 3-D Design Credits: 3
- ART 105 - Basic Studio Drawing Credits: 3
- ART 225 - Overview of Western Art Credits: 3
- ART 226 - Overview of World Art Credits: 3
- ART 300 - Art Seminar Credits: 3

Electives - 6 credits:

Choose two of the following. No class may be repeated for additional credit.

- ART 325 - North American Art History Credits: 3
- ART 335 - The Renaissance Tradition Credits: 3
- ART 345 - Foundations of Modern Art Credits: 3
- ART 355 - Early Modern Art Credits: 3
- ART 365 - Art Since 1945 Credits: 3
- ART 420 - Art History Seminar Credits: 3

Electives - Credits: 9

Choose three from the following. No class may be repeated.

- ART 106 - Basic Studio Painting Credits: 3
- ART 107 - Basic Studio Photography Credits: 3
- ART 108 - Basic Studio Printmaking Credits: 3
- ART 109 - Basic Studio Metalsmithing Credits: 3
- ART 110 - Basic Studio Sculpture Credits: 3
- ART 111 - Basic Studio Fiber Art Credits: 3
- ART 112 - Basic Studio Ceramics Credits: 3
- ART 114 - Basic Studio Digital Media Credits: 3

Electives - Credits: 12

Choose twelve credits from the following. Pre-requisite is any 100 level studio. Can repeat any class twice.

- ART 205 - Intermediate Studio Drawing Credits: 3
- ART 206 - Intermediate Studio Painting Credits: 3
- ART 207 - Intermediate Studio Photography Credits: 3
- ART 208 - Intermediate Studio Printmaking Credits: 3
- ART 209 - Intermediate Studio Metalsmithing Credits: 3
- ART 210 - Intermediate Studio Sculpture Credits: 3

- ART 211 - Intermediate Studio Fiber Art Credits: 3
- ART 212 - Intermediate Studio Ceramics Credits: 3
- ART 213 - Intermediate Studio Graphic Design Credits: 3
- ART 214 - Intermediate Studio Digital Media Credits: 3

Portfolio Review

The 'Portfolio Review' must be passed before students are allowed to enroll in 300-level studio art class. See advisor.

Electives - Credits: 12

Choose 12 credits from the following. Pre-requisite is from any 200 level studio. Can repeat any class three times.

- ART 305 - Advanced Studio Drawing Credits: 3
- ART 306 - Advanced Studio Painting Credits: 3
- ART 307 - Advanced Studio Photography Credits: 3
- ART 308 - Advanced Studio Printmaking Credits: 3
- ART 309 - Advanced Studio Metalsmithing Credits: 3
- ART 310 - Advanced Studio Sculpture Credits: 3
- ART 311 - Advanced Studio Fiber Art Credits: 3
- ART 312 - Advanced Studio Ceramics Credits: 3
- ART 313 - Advanced Studio Graphic Design Credits: 3
- ART 314 - Advanced Studio Digital Media Credits: 3

Electives - Credits: 9

Choose 9 credits from the following. Pre-requisite is 6 credits from any 300 level studio; can repeat any class twice.

- ART 405 - Senior Studio Drawing Credits: 3
- ART 406 - Senior Studio Painting Credits: 3
- ART 407 - Senior Studio Photography Credits: 3
- ART 408 - Senior Studio Printmaking Credits: 3
- ART 409 - Senior Studio Metalsmithing Credits: 3
- ART 410 - Senior Studio Sculpture Credits: 3
- ART 411 - Senior Studio Fiber Art Credits: 3
- ART 412 - Senior Studio Ceramics Credits: 3
- ART 413 - Senior Studio Graphic Design Credits: 3
- ART 414 - Senior Studio Digital Media Credits: 3

Senior Project - Credits: 3

Senior Project pre-requisite: any 400 level studio.; by permission of instructor.

Choose one of the following:

- ART 425 - Senior Project Drawing Credits: 3
- ART 426 - Senior Project Painting Credits: 3
- ART 427 - Senior Project Photography Credits: 3

- ART 428 - Senior Project Printmaking Credits: 3
- ART 429 - Senior Project Metalsmithing Credits: 3
- ART 430 - Senior Project Sculpture Credits: 3
- ART 431 - Senior Project Fiber Art Credits: 3
- ART 432 - Senior Project Ceramics Credits: 3
- ART 433 - Senior Project Graphic Design Credits: 3
- ART 434 - Senior Project Digital Media Credits: 3

Electives - Credits: 9

Choose 9 credits from any Art course selections at the 300/400 level

Art (BFA) - Concentration in Ceramic Arts

Requirements for the Major - Credits: 78

Required Courses - Credits: 18

- ART 100 - 2-D Design Credits: 3
- ART 101 - 3-D Design Credits: 3
- ART 105 - Basic Studio Drawing Credits: 3
- ART 225 - Overview of Western Art Credits: 3
- ART 226 - Overview of World Art Credits: 3
- ART 300 - Art Seminar Credits: 3

Art History Electives - Credits: 6

Choose two of the following courses:

- ART 325 - North American Art History Credits: 3
- ART 335 - The Renaissance Tradition Credits: 3
- ART 345 - Foundations of Modern Art Credits: 3
- ART 355 - Early Modern Art Credits: 3
- ART 365 - Art Since 1945 Credits: 3
- ART 420 - Art History Seminar Credits: 3

Ceramic Arts Concentration - Credits: 15

Ceramic Arts Concentration Electives - Credits: 12

Choose from the following courses (12 credits) (any combination of courses) (concentration courses will count towards BFA studio requirements) (200-400 level courses are repeatable)

- ART 112 - Basic Studio Ceramics Credits: 3 (Credits: 0-3)
- ART 212 - Intermediate Studio Ceramics Credits: 3 (Credits: 0-6)
- ART 312 - Advanced Studio Ceramics Credits: 3 (Credits: 0-9)

- ART 412 - Senior Studio Ceramics Credits: 3 (Credits: 0-6)

Ceramic Arts 1st Concentration Required Capstone Course - Credits: 3

- ART 432 - Senior Project Ceramics Credits: 3

Additional Studio Requirements - Credits: 45

100 Level Electives - Credits: 9

Choose three of the following courses. No class may be repeated.

- ART 106 - Basic Studio Painting Credits: 3
- ART 107 - Basic Studio Photography Credits: 3
- ART 108 - Basic Studio Printmaking Credits: 3
- ART 109 - Basic Studio Metalsmithing Credits: 3
- ART 110 - Basic Studio Sculpture Credits: 3
- ART 111 - Basic Studio Fiber Art Credits: 3
- ART 114 - Basic Studio Digital Media Credits: 3

200 Level Electives - Credits: 12

Choose four of the following courses. May take any class twice.

- ART 205 - Intermediate Studio Drawing Credits: 3
- ART 206 - Intermediate Studio Painting Credits: 3
- ART 207 - Intermediate Studio Photography Credits: 3
- ART 208 - Intermediate Studio Printmaking Credits: 3
- ART 209 - Intermediate Studio Metalsmithing Credits: 3
- ART 210 - Intermediate Studio Sculpture Credits: 3
- ART 211 - Intermediate Studio Fiber Art Credits: 3
- ART 212 - Intermediate Studio Ceramics Credits: 3
- ART 213 - Intermediate Studio Graphic Design Credits: 3
- ART 214 - Intermediate Studio Digital Media Credits: 3

300 Level Electives - Credits: 12

Choose four of the following courses. May take any class up to three times.

- ART 305 - Advanced Studio Drawing Credits: 3
- ART 306 - Advanced Studio Painting Credits: 3
- ART 307 - Advanced Studio Photography Credits: 3
- ART 308 - Advanced Studio Printmaking Credits: 3
- ART 309 - Advanced Studio Metalsmithing Credits: 3
- ART 310 - Advanced Studio Sculpture Credits: 3
- ART 311 - Advanced Studio Fiber Art Credits: 3
- ART 312 - Advanced Studio Ceramics Credits: 3

- ART 313 - Advanced Studio Graphic Design Credits: 3
- ART 314 - Advanced Studio Digital Media Credits: 3

400 Level Electives - Credits: 9

Choose three of the following courses. May take any class up to two times.

- ART 405 - Senior Studio Drawing Credits: 3
- ART 406 - Senior Studio Painting Credits: 3
- ART 407 - Senior Studio Photography Credits: 3
- ART 408 - Senior Studio Printmaking Credits: 3
- ART 409 - Senior Studio Metalsmithing Credits: 3
- ART 410 - Senior Studio Sculpture Credits: 3
- ART 411 - Senior Studio Fiber Art Credits: 3
- ART 412 - Senior Studio Ceramics Credits: 3
- ART 413 - Senior Studio Graphic Design Credits: 3
- ART 414 - Senior Studio Digital Media Credits: 3

Art Electives - Credits: 9

Choose from 300-400 level courses.

ART ____

ART ____

ART ____

Art (BFA) - Concentration in Digital Media

Major Requirements - Credits: 78

- ART 100 - 2-D Design Credits: 3
- ART 101 - 3-D Design Credits: 3
- ART 105 - Basic Studio Drawing Credits: 3
- ART 225 - Overview of Western Art Credits: 3
- ART 226 - Overview of World Art Credits: 3
- ART 300 - Art Seminar Credits: 3

Required Courses - Credits: 18

Art History Electives - Credits: 6

Choose two of the following courses.

- ART 325 - North American Art History Credits: 3
- ART 335 - The Renaissance Tradition Credits: 3

- ART 345 - Foundations of Modern Art Credits: 3
- ART 355 - Early Modern Art Credits: 3
- ART 365 - Art Since 1945 Credits: 3
- ART 420 - Art History Seminar Credits: 3

Digital Media Concentration - Credits: 15

Digital Media Concentration Electives - Credits: 12

Choose from the following courses (12 credits) (any combination of courses) (concentration courses will count towards BFA studio requirements) (200-400 level courses are repeatable)

- ART 114 - Basic Studio Digital Media Credits: 3 (Credits: 0-3)
- ART 214 - Intermediate Studio Digital Media Credits: 3 (Credits: 0-6)
- ART 314 - Advanced Studio Digital Media Credits: 3 (Credits: 0-9)
- ART 414 - Senior Studio Digital Media Credits: 3 (Credits: 0-6)

Digital Media 1st Concentration Required Capstone Course - Credits: 3

- ART 434 - Senior Project Digital Media Credits: 3

Additional Studio Requirements - Credits: 45

100 Level Electives - Credits: 9

Choose three of the following courses. No class may be repeated.

- ART 106 - Basic Studio Painting Credits: 3
- ART 107 - Basic Studio Photography Credits: 3
- ART 108 - Basic Studio Printmaking Credits: 3
- ART 109 - Basic Studio Metalsmithing Credits: 3
- ART 110 - Basic Studio Sculpture Credits: 3
- ART 111 - Basic Studio Fiber Art Credits: 3
- ART 112 - Basic Studio Ceramics Credits: 3

200 Level Electives - Credits: 12

Choose four of the following courses. May take any class twice.

- ART 205 - Intermediate Studio Drawing Credits: 3
- ART 206 - Intermediate Studio Painting Credits: 3
- ART 207 - Intermediate Studio Photography Credits: 3
- ART 208 - Intermediate Studio Printmaking Credits: 3
- ART 209 - Intermediate Studio Metalsmithing Credits: 3
- ART 210 - Intermediate Studio Sculpture Credits: 3
- ART 211 - Intermediate Studio Fiber Art Credits: 3
- ART 212 - Intermediate Studio Ceramics Credits: 3

- ART 213 - Intermediate Studio Graphic Design Credits: 3
- ART 214 - Intermediate Studio Digital Media Credits: 3

300 Level Electives - Credits: 12

Choose four of the following courses. May take any class up to three times.

- ART 305 - Advanced Studio Drawing Credits: 3
- ART 306 - Advanced Studio Painting Credits: 3
- ART 307 - Advanced Studio Photography Credits: 3
- ART 308 - Advanced Studio Printmaking Credits: 3
- ART 309 - Advanced Studio Metalsmithing Credits: 3
- ART 310 - Advanced Studio Sculpture Credits: 3
- ART 311 - Advanced Studio Fiber Art Credits: 3
- ART 312 - Advanced Studio Ceramics Credits: 3
- ART 313 - Advanced Studio Graphic Design Credits: 3
- ART 314 - Advanced Studio Digital Media Credits: 3

400 Level Electives - Credits: 9

Choose three of the following courses. May take any class up to two times.

- ART 405 - Senior Studio Drawing Credits: 3
- ART 406 - Senior Studio Painting Credits: 3
- ART 407 - Senior Studio Photography Credits: 3
- ART 408 - Senior Studio Printmaking Credits: 3
- ART 409 - Senior Studio Metalsmithing Credits: 3
- ART 410 - Senior Studio Sculpture Credits: 3
- ART 411 - Senior Studio Fiber Art Credits: 3
- ART 412 - Senior Studio Ceramics Credits: 3
- ART 413 - Senior Studio Graphic Design Credits: 3
- ART 414 - Senior Studio Digital Media Credits: 3

Art Electives - Credits: 9

Choose from 300-400 level courses.

ART ____

ART ____

ART ____

Art (BFA) - Concentration in Drawing

Major Requirements - Credits: 78

Required Courses - Credits: 18

- ART 100 - 2-D Design Credits: 3
- ART 101 - 3-D Design Credits: 3
- ART 105 - Basic Studio Drawing Credits: 3
- ART 225 - Overview of Western Art Credits: 3
- ART 226 - Overview of World Art Credits: 3
- ART 300 - Art Seminar Credits: 3

Art History Electives - Credits: 6

Choose two of the following courses.

- ART 325 - North American Art History Credits: 3
- ART 335 - The Renaissance Tradition Credits: 3
- ART 345 - Foundations of Modern Art Credits: 3
- ART 355 - Early Modern Art Credits: 3
- ART 365 - Art Since 1945 Credits: 3
- ART 420 - Art History Seminar Credits: 3

Drawing Concentration - Credits: 15

Drawing Concentration Electives - Credits: 12

Choose from the following courses (12 credits) (any combination of courses) (concentration courses will count towards BFA studio requirements) (200-400 level courses are repeatable)

- ART 205 - Intermediate Studio Drawing Credits: 3 (Credits: 0-6)
- ART 305 - Advanced Studio Drawing Credits: 3 (Credits: 0-9)
- ART 405 - Senior Studio Drawing Credits: 3 (Credits: 0-6)

Drawing 1st Concentration Required Capstone Course - Credits: 3

- ART 425 - Senior Project Drawing Credits: 3

Additional Studio Requirements - Credits: 45

100 Level Electives - Credits: 9

Choose three of the following courses. No class may be repeated.

- ART 106 - Basic Studio Painting Credits: 3
- ART 107 - Basic Studio Photography Credits: 3
- ART 108 - Basic Studio Printmaking Credits: 3
- ART 109 - Basic Studio Metalsmithing Credits: 3
- ART 110 - Basic Studio Sculpture Credits: 3
- ART 111 - Basic Studio Fiber Art Credits: 3
- ART 112 - Basic Studio Ceramics Credits: 3
- ART 114 - Basic Studio Digital Media Credits: 3

200 Level Electives - Credits: 12

Choose four of the following courses. May take any class twice.

- ART 205 - Intermediate Studio Drawing Credits: 3
- ART 206 - Intermediate Studio Painting Credits: 3
- ART 207 - Intermediate Studio Photography Credits: 3
- ART 208 - Intermediate Studio Printmaking Credits: 3
- ART 209 - Intermediate Studio Metalsmithing Credits: 3
- ART 210 - Intermediate Studio Sculpture Credits: 3
- ART 211 - Intermediate Studio Fiber Art Credits: 3
- ART 212 - Intermediate Studio Ceramics Credits: 3
- ART 213 - Intermediate Studio Graphic Design Credits: 3
- ART 214 - Intermediate Studio Digital Media Credits: 3

300 Level Electives - Credits: 12

Choose four of the following courses. May take any class up to three times.

- ART 305 - Advanced Studio Drawing Credits: 3
- ART 306 - Advanced Studio Painting Credits: 3
- ART 307 - Advanced Studio Photography Credits: 3
- ART 308 - Advanced Studio Printmaking Credits: 3
- ART 309 - Advanced Studio Metalsmithing Credits: 3
- ART 310 - Advanced Studio Sculpture Credits: 3
- ART 311 - Advanced Studio Fiber Art Credits: 3
- ART 312 - Advanced Studio Ceramics Credits: 3
- ART 313 - Advanced Studio Graphic Design Credits: 3
- ART 314 - Advanced Studio Digital Media Credits: 3

400 Level Electives - Credits: 9

Choose three of the following courses. May take any class up to two times.

- ART 405 - Senior Studio Drawing Credits: 3
- ART 406 - Senior Studio Painting Credits: 3
- ART 407 - Senior Studio Photography Credits: 3
- ART 408 - Senior Studio Printmaking Credits: 3
- ART 409 - Senior Studio Metalsmithing Credits: 3
- ART 410 - Senior Studio Sculpture Credits: 3
- ART 411 - Senior Studio Fiber Art Credits: 3
- ART 412 - Senior Studio Ceramics Credits: 3
- ART 413 - Senior Studio Graphic Design Credits: 3
- ART 414 - Senior Studio Digital Media Credits: 3

Art Electives - Credits: 9

Choose from 300-400 level courses.

ART ____

ART ____

ART ____

Art (BFA) - Concentration in Fiber Arts

Major Requirements - Credits: 78

Required Courses - Credits: 18

- ART 100 - 2-D Design Credits: 3
- ART 101 - 3-D Design Credits: 3
- ART 105 - Basic Studio Drawing Credits: 3
- ART 225 - Overview of Western Art Credits: 3
- ART 226 - Overview of World Art Credits: 3
- ART 300 - Art Seminar Credits: 3

Art History Electives - Credits: 6

Choose two of the following courses.

- ART 325 - North American Art History Credits: 3
- ART 335 - The Renaissance Tradition Credits: 3
- ART 345 - Foundations of Modern Art Credits: 3
- ART 355 - Early Modern Art Credits: 3
- ART 365 - Art Since 1945 Credits: 3
- ART 420 - Art History Seminar Credits: 3

Fiber Art Concentration - Credits: 15

Fiber Art Concentration Electives - Credits: 12

Choose from the following courses (12 credits) (any combination of courses) (concentration courses will count towards BFA studio requirements) (200-400 level courses are repeatable)

- ART 111 - Basic Studio Fiber Art Credits: 3 (Credits: 0-3)
- ART 211 - Intermediate Studio Fiber Art Credits: 3 (Credits: 0-6)
- ART 311 - Advanced Studio Fiber Art Credits: 3 (Credits: 0-9)
- ART 411 - Senior Studio Fiber Art Credits: 3 (Credits: 0-6)

Fiber Art 1st Concentration Required Capstone Course - Credits: 3

- ART 431 - Senior Project Fiber Art Credits: 3

Additional Studio Requirements - Credits: 45

100 Level Electives - Credits: 9

Choose three of the following courses. No class may be repeated.

- ART 106 - Basic Studio Painting Credits: 3
- ART 107 - Basic Studio Photography Credits: 3
- ART 108 - Basic Studio Printmaking Credits: 3
- ART 109 - Basic Studio Metalsmithing Credits: 3
- ART 110 - Basic Studio Sculpture Credits: 3
- ART 112 - Basic Studio Ceramics Credits: 3
- ART 114 - Basic Studio Digital Media Credits: 3

200 Level Electives - Credits: 12

Choose four of the following courses. May take any class twice.

- ART 205 - Intermediate Studio Drawing Credits: 3
- ART 206 - Intermediate Studio Painting Credits: 3
- ART 207 - Intermediate Studio Photography Credits: 3
- ART 208 - Intermediate Studio Printmaking Credits: 3
- ART 209 - Intermediate Studio Metalsmithing Credits: 3
- ART 210 - Intermediate Studio Sculpture Credits: 3
- ART 211 - Intermediate Studio Fiber Art Credits: 3
- ART 212 - Intermediate Studio Ceramics Credits: 3
- ART 213 - Intermediate Studio Graphic Design Credits: 3
- ART 214 - Intermediate Studio Digital Media Credits: 3

300 Level Electives - Credits: 12

Choose four of the following courses. May take any class up to three times.

- ART 305 - Advanced Studio Drawing Credits: 3
- ART 306 - Advanced Studio Painting Credits: 3
- ART 307 - Advanced Studio Photography Credits: 3
- ART 308 - Advanced Studio Printmaking Credits: 3
- ART 309 - Advanced Studio Metalsmithing Credits: 3
- ART 310 - Advanced Studio Sculpture Credits: 3
- ART 311 - Advanced Studio Fiber Art Credits: 3
- ART 312 - Advanced Studio Ceramics Credits: 3
- ART 313 - Advanced Studio Graphic Design Credits: 3
- ART 314 - Advanced Studio Digital Media Credits: 3

400 Level Electives - Credits: 9

Choose three of the following courses. May take any class up to two times.

- ART 405 - Senior Studio Drawing Credits: 3
- ART 406 - Senior Studio Painting Credits: 3

- ART 407 - Senior Studio Photography Credits: 3
- ART 408 - Senior Studio Printmaking Credits: 3
- ART 409 - Senior Studio Metalsmithing Credits: 3
- ART 410 - Senior Studio Sculpture Credits: 3
- ART 411 - Senior Studio Fiber Art Credits: 3
- ART 412 - Senior Studio Ceramics Credits: 3
- ART 413 - Senior Studio Graphic Design Credits: 3
- ART 414 - Senior Studio Digital Media Credits: 3

Art Electives - Credits: 9

Choose from 300-400 level courses.

ART ____

ART ____

ART ____

Art (BFA) - Concentration in Graphic Design

Art (BFA) - Graphic Design Concentration - Credits: 78

Required Courses - Credits 18

- ART 100 - 2-D Design Credits: 3
- ART 101 - 3-D Design Credits: 3
- ART 105 - Basic Studio Drawing Credits: 3
- ART 225 - Overview of Western Art Credits: 3
- ART 226 - Overview of World Art Credits: 3

Art History Electives - Credits: 6

Choose two of the following courses:

- ART 325 - North American Art History Credits: 3
- ART 335 - The Renaissance Tradition Credits: 3
- ART 345 - Foundations of Modern Art Credits: 3
- ART 355 - Early Modern Art Credits: 3
- ART 365 - Art Since 1945 Credits: 3
- ART 420 - Art History Seminar Credits: 3

Graphic Design Concentration - Credits: 15

Graphic Design Concentration Electives - Credits: 12

Graphic Design Concentration electives - choose from the following courses (12 credits). Any combination of courses can be selected: the concentration courses will count towards BFA studio requirements. 200-400 level courses are repeatable. See below for repeat course details.

- ART 213 - Intermediate Studio Graphic Design Credits: 3 May be taken for 3-6 credits
- ART 313 - Advanced Studio Graphic Design Credits: 3 May be taken for 3-9 credits
- ART 413 - Senior Studio Graphic Design Credits: 3 May be taken for 3-6 credits

Graphic Design 1st Concentration Required Capstone Course - Credits: 3

- ART 433 - Senior Project Graphic Design Credits: 3

Additional Studio Requirements - Credits: 45

100 Level Electives - Credits: 9

Choose three of the following courses. No class may be repeated.

- ART 106 - Basic Studio Painting Credits: 3
- ART 107 - Basic Studio Photography Credits: 3
- ART 108 - Basic Studio Printmaking Credits: 3
- ART 109 - Basic Studio Metalsmithing Credits: 3
- ART 110 - Basic Studio Sculpture Credits: 3
- ART 111 - Basic Studio Fiber Art Credits: 3
- ART 112 - Basic Studio Ceramics Credits: 3
- ART 114 - Basic Studio Digital Media Credits: 3

200 Level Electives - Credits: 12

Choose four of the following courses. May take any class twice.

- ART 205 - Intermediate Studio Drawing Credits: 3
- ART 206 - Intermediate Studio Painting Credits: 3
- ART 207 - Intermediate Studio Photography Credits: 3
- ART 208 - Intermediate Studio Printmaking Credits: 3
- ART 209 - Intermediate Studio Metalsmithing Credits: 3
- ART 210 - Intermediate Studio Sculpture Credits: 3
- ART 211 - Intermediate Studio Fiber Art Credits: 3
- ART 212 - Intermediate Studio Ceramics Credits: 3
- ART 213 - Intermediate Studio Graphic Design Credits: 3
- ART 214 - Intermediate Studio Digital Media Credits: 3

Portfolio Review

The 'Portfolio Review' must be passed before students are allowed to enroll in 300-level studio art class. See advisor.

300 Level Electives - Credits: 12

Choose four of the following courses. May take any class up to three times.

- ART 305 - Advanced Studio Drawing Credits: 3
- ART 306 - Advanced Studio Painting Credits: 3
- ART 307 - Advanced Studio Photography Credits: 3
- ART 308 - Advanced Studio Printmaking Credits: 3
- ART 309 - Advanced Studio Metalsmithing Credits: 3
- ART 310 - Advanced Studio Sculpture Credits: 3
- ART 311 - Advanced Studio Fiber Art Credits: 3
- ART 312 - Advanced Studio Ceramics Credits: 3
- ART 313 - Advanced Studio Graphic Design Credits: 3
- ART 314 - Advanced Studio Digital Media Credits: 3

400 Level Electives - Credits: 9

Choose three of the following courses. May take any class up to two times.

- ART 405 - Senior Studio Drawing Credits: 3
- ART 406 - Senior Studio Painting Credits: 3
- ART 407 - Senior Studio Photography Credits: 3
- ART 408 - Senior Studio Printmaking Credits: 3
- ART 409 - Senior Studio Metalsmithing Credits: 3
- ART 410 - Senior Studio Sculpture Credits: 3
- ART 411 - Senior Studio Fiber Art Credits: 3
- ART 412 - Senior Studio Ceramics Credits: 3
- ART 413 - Senior Studio Graphic Design Credits: 3
- ART 414 - Senior Studio Digital Media Credits: 3

Art Electives - Credits: 9

- ART *** (3 credits)
- ART *** (3 credits)
- ART *** (3 credits)

Art (BFA) - Concentration in K-12 Art Teacher Preparation

Students in the BFA Art program will have the option to elect this concentration and take most of the required coursework as undergraduates at SRU to prepare for certification through Carlow University. BFA Art graduates with this concentration will enroll at Carlow University for a semester of student teaching, and will obtain K-12 Art Teacher Certification through Carlow University.

This concentration can be completed within the current curricular structure of the BFA degree, and with the addition of six College of Education classes. Students are required to take one class (at any level) in most studio art disciplines. See advisor.

This concentration includes all coursework and requirements specified by the Pennsylvania Department of Education, with student teaching and K-12 Art Teacher certification obtained through Carlow University.

Requirements for the Major - Credits: 78

Major Requirements - 18 credits

- ART 100 - 2-D Design Credits: 3
- ART 101 - 3-D Design Credits: 3
- ART 105 - Basic Studio Drawing Credits: 3
- ART 225 - Overview of Western Art Credits: 3
- ART 226 - Overview of World Art Credits: 3
- ART 300 - Art Seminar Credits: 3

Art History Electives - Credits: 6

Choose two of the following. No class may be repeated for additional credit.

- ART 325 - North American Art History Credits: 3
- ART 335 - The Renaissance Tradition Credits: 3
- ART 345 - Foundations of Modern Art Credits: 3
- ART 355 - Early Modern Art Credits: 3
- ART 365 - Art Since 1945 Credits: 3
- ART 420 - Art History Seminar Credits: 3

100-Level Electives - Credits: 9

Choose three from the following. No class may be repeated.

- ART 106 - Basic Studio Painting Credits: 3
- ART 107 - Basic Studio Photography Credits: 3
- ART 108 - Basic Studio Printmaking Credits: 3
- ART 109 - Basic Studio Metalsmithing Credits: 3
- ART 110 - Basic Studio Sculpture Credits: 3
- ART 111 - Basic Studio Fiber Art Credits: 3
- ART 112 - Basic Studio Ceramics Credits: 3
- ART 114 - Basic Studio Digital Media Credits: 3

200-Level Electives - Credits: 12

Choose twelve credits from the following. Pre-requisite is any 100-level studio. Can repeat any class twice.

- ART 205 - Intermediate Studio Drawing Credits: 3
- ART 206 - Intermediate Studio Painting Credits: 3
- ART 207 - Intermediate Studio Photography Credits: 3
- ART 208 - Intermediate Studio Printmaking Credits: 3
- ART 209 - Intermediate Studio Metalsmithing Credits: 3
- ART 210 - Intermediate Studio Sculpture Credits: 3
- ART 211 - Intermediate Studio Fiber Art Credits: 3
- ART 212 - Intermediate Studio Ceramics Credits: 3

- ART 213 - Intermediate Studio Graphic Design Credits: 3
- ART 214 - Intermediate Studio Digital Media Credits: 3

Portfolio Review

The 'Portfolio Review' must be passed before students are allowed to enroll in 300-level studio art classes. See advisor.

300-Level Electives - Credits: 12

Choose 12 credits from the following. Pre-requisite (6 credits) from any 200 level studio. Can repeat any class three times.

- ART 305 - Advanced Studio Drawing Credits: 3
- ART 306 - Advanced Studio Painting Credits: 3
- ART 307 - Advanced Studio Photography Credits: 3
- ART 308 - Advanced Studio Printmaking Credits: 3
- ART 309 - Advanced Studio Metalsmithing Credits: 3
- ART 310 - Advanced Studio Sculpture Credits: 3
- ART 311 - Advanced Studio Fiber Art Credits: 3
- ART 312 - Advanced Studio Ceramics Credits: 3
- ART 313 - Advanced Studio Graphic Design Credits: 3
- ART 314 - Advanced Studio Digital Media Credits: 3

400-Level Electives - Credits: 9

Choose 9 credits from the following. Pre-requisite (6 credits) from any 300 level studio; can repeat any class twice.

- ART 405 - Senior Studio Drawing Credits: 3
- ART 406 - Senior Studio Painting Credits: 3
- ART 407 - Senior Studio Photography Credits: 3
- ART 408 - Senior Studio Printmaking Credits: 3
- ART 409 - Senior Studio Metalsmithing Credits: 3
- ART 410 - Senior Studio Sculpture Credits: 3
- ART 411 - Senior Studio Fiber Art Credits: 3
- ART 412 - Senior Studio Ceramics Credits: 3
- ART 413 - Senior Studio Graphic Design Credits: 3
- ART 414 - Senior Studio Digital Media Credits: 3

Senior Project - Credits: 3

Senior Project prerequisite: any 400 level studio; by permission of instructor.

Choose one of the following:

- ART 425 - Senior Project Drawing Credits: 3
- ART 426 - Senior Project Painting Credits: 3
- ART 427 - Senior Project Photography Credits: 3
- ART 428 - Senior Project Printmaking Credits: 3

- ART 429 - Senior Project Metalsmithing Credits: 3
- ART 430 - Senior Project Sculpture Credits: 3
- ART 431 - Senior Project Fiber Art Credits: 3
- ART 432 - Senior Project Ceramics Credits: 3
- ART 433 - Senior Project Graphic Design Credits: 3
- ART 434 - Senior Project Digital Media Credits: 3

Art Electives - Credits: 9

Recommended classes - required for certification:

- ART 317 - Elementary Art Methods and Materials Credits: 3
- ART 440 - Art Education Methods Credits: 1 *
- ART 451 - Art Education Methods Internship Credits: 2 *
* Taken concurrently.
- AE 327 - Secondary Art Methods and Materials. Credits: 3 **
** Students take this class through Carlow University as guests while they are undergraduates, and pay Carlow for three credits at the SRU cost/credit. These three credits will complete the Art Electives block.

Education Related Coursework - Credit: 21

- SPED 121 - High Incidence Disabilities Credits: 3
- SEFE 200 - Introduction to Education, Teaching Methods and Field Credits: 3
- CDEV 248 - Human Development and Education Credits: 3 (This class fulfills a Liberal Studies Enrichment requirement)
At or before 48 credits, students must pass the 'Candidacy for Certification Review.' This review must be passed before students are allowed to enroll in 300-Level education-related classes. See advisor.
- SPED 325 - Interventions in the Inclusive Classroom Credits: 3
- SEFE 326 - ELL Strategies and Practice Credits: 3
- SEFE 342 - Educational Psychology for Diverse Learners Credits: 3
- SPED 430 - Positive Behavior Strategies Credits: 3

After graduation from SRU

Students will enroll at Carlow University for one semester of student teaching. See advisor.

Certification Through Carlow University

Total of one semester, 12 credits: tuition is at Carlow University prices.

- AE 409 - Elementary Art Student Teaching - Credits: 6
- AE 410 - Secondary Art Student Teaching - Credits: 6

Art (BFA) - Concentration in Metalsmithing

Major Requirements - Credits: 78

Required Courses - Credits: 18

- ART 100 - 2-D Design Credits: 3
- ART 101 - 3-D Design Credits: 3
- ART 105 - Basic Studio Drawing Credits: 3
- ART 225 - Overview of Western Art Credits: 3
- ART 226 - Overview of World Art Credits: 3
- ART 300 - Art Seminar Credits: 3

Art History Electives - Credits: 6

Choose two of the following courses.

- ART 325 - North American Art History Credits: 3
- ART 335 - The Renaissance Tradition Credits: 3
- ART 345 - Foundations of Modern Art Credits: 3
- ART 355 - Early Modern Art Credits: 3
- ART 365 - Art Since 1945 Credits: 3
- ART 420 - Art History Seminar Credits: 3

Metalsmithing Concentration - Credits: 15

Metalsmithing Concentration Electives - Credits: 12

Choose from the following courses (12 credits) (any combination of courses) (concentration courses will count towards BFA studio requirements) (200-400 level courses are repeatable)

- ART 109 - Basic Studio Metalsmithing Credits: 3 (Credits: 0-3)
- ART 209 - Intermediate Studio Metalsmithing Credits: 3 (Credits: 0-6)
- ART 309 - Advanced Studio Metalsmithing Credits: 3 (Credits: 0-9)
- ART 409 - Senior Studio Metalsmithing Credits: 3 (Credits: 0-6)

Metalsmithing 1st Concentration Required Capstone Course - Credits: 3

- ART 429 - Senior Project Metalsmithing Credits: 3

Additional Studio Requirements - Credits: 45

100 Level Electives - Credits: 9

Choose three of the following courses. No class may be repeated.

- ART 106 - Basic Studio Painting Credits: 3
- ART 107 - Basic Studio Photography Credits: 3
- ART 108 - Basic Studio Printmaking Credits: 3
- ART 110 - Basic Studio Sculpture Credits: 3
- ART 111 - Basic Studio Fiber Art Credits: 3

- ART 112 - Basic Studio Ceramics Credits: 3
- ART 114 - Basic Studio Digital Media Credits: 3

200 Level Electives - Credits: 12

Choose four of the following courses. May take any class twice.

- ART 205 - Intermediate Studio Drawing Credits: 3
- ART 206 - Intermediate Studio Painting Credits: 3
- ART 207 - Intermediate Studio Photography Credits: 3
- ART 208 - Intermediate Studio Printmaking Credits: 3
- ART 209 - Intermediate Studio Metalsmithing Credits: 3
- ART 210 - Intermediate Studio Sculpture Credits: 3
- ART 211 - Intermediate Studio Fiber Art Credits: 3
- ART 212 - Intermediate Studio Ceramics Credits: 3
- ART 213 - Intermediate Studio Graphic Design Credits: 3
- ART 214 - Intermediate Studio Digital Media Credits: 3

300 Level Electives - Credits: 12

Choose four of the following courses. May take any class up to three times.

- ART 305 - Advanced Studio Drawing Credits: 3
- ART 306 - Advanced Studio Painting Credits: 3
- ART 307 - Advanced Studio Photography Credits: 3
- ART 308 - Advanced Studio Printmaking Credits: 3
- ART 309 - Advanced Studio Metalsmithing Credits: 3
- ART 310 - Advanced Studio Sculpture Credits: 3
- ART 311 - Advanced Studio Fiber Art Credits: 3
- ART 312 - Advanced Studio Ceramics Credits: 3
- ART 313 - Advanced Studio Graphic Design Credits: 3
- ART 314 - Advanced Studio Digital Media Credits: 3

400 Level Electives - Credits: 9

Choose three of the following courses. May take any class up to two times.

- ART 405 - Senior Studio Drawing Credits: 3
- ART 406 - Senior Studio Painting Credits: 3
- ART 407 - Senior Studio Photography Credits: 3
- ART 408 - Senior Studio Printmaking Credits: 3
- ART 409 - Senior Studio Metalsmithing Credits: 3
- ART 410 - Senior Studio Sculpture Credits: 3
- ART 411 - Senior Studio Fiber Art Credits: 3
- ART 412 - Senior Studio Ceramics Credits: 3
- ART 413 - Senior Studio Graphic Design Credits: 3
- ART 414 - Senior Studio Digital Media Credits: 3

Art Electives - Credits: 9

Choose from 300-400 level courses.

ART ____

ART ____

ART ____

Art (BFA) - Concentration in Painting

Major Requirements - Credits: 78

Required Courses - Credits: 18

- ART 100 - 2-D Design Credits: 3
- ART 101 - 3-D Design Credits: 3
- ART 105 - Basic Studio Drawing Credits: 3
- ART 225 - Overview of Western Art Credits: 3
- ART 226 - Overview of World Art Credits: 3
- ART 300 - Art Seminar Credits: 3

Art History Electives - Credits: 6

Choose two of the following courses.

- ART 325 - North American Art History Credits: 3
- ART 335 - The Renaissance Tradition Credits: 3
- ART 345 - Foundations of Modern Art Credits: 3
- ART 355 - Early Modern Art Credits: 3
- ART 365 - Art Since 1945 Credits: 3
- ART 420 - Art History Seminar Credits: 3

Painting Concentration - Credits: 15

Painting Concentration Electives - Credits: 12

Choose from the following courses (12 credits) (any combination of courses) (concentration courses will count towards BFA studio requirements) (200-400 level courses are repeatable).

- ART 106 - Basic Studio Painting Credits: 3 (Credits: 0-3)
- ART 206 - Intermediate Studio Painting Credits: 3 (Credits: 0-6)
- ART 306 - Advanced Studio Painting Credits: 3 (Credits: 0-9)
- ART 406 - Senior Studio Painting Credits: 3 (Credits: 0-6)

Painting 1st Concentration Required Capstone Course - Credits: 3

- ART 426 - Senior Project Painting Credits: 3

Additional Studio Requirements - Credits: 45

100 Level Electives - Credits: 9

Choose three of the following courses. No class may be repeated.

- ART 107 - Basic Studio Photography Credits: 3
- ART 108 - Basic Studio Printmaking Credits: 3
- ART 109 - Basic Studio Metalsmithing Credits: 3
- ART 110 - Basic Studio Sculpture Credits: 3
- ART 111 - Basic Studio Fiber Art Credits: 3
- ART 112 - Basic Studio Ceramics Credits: 3
- ART 114 - Basic Studio Digital Media Credits: 3

200 Level Electives - Credits: 12

Choose four of the following courses. May take any class twice.

- ART 205 - Intermediate Studio Drawing Credits: 3
- ART 206 - Intermediate Studio Painting Credits: 3
- ART 207 - Intermediate Studio Photography Credits: 3
- ART 208 - Intermediate Studio Printmaking Credits: 3
- ART 209 - Intermediate Studio Metalsmithing Credits: 3
- ART 210 - Intermediate Studio Sculpture Credits: 3
- ART 211 - Intermediate Studio Fiber Art Credits: 3
- ART 212 - Intermediate Studio Ceramics Credits: 3
- ART 213 - Intermediate Studio Graphic Design Credits: 3
- ART 214 - Intermediate Studio Digital Media Credits: 3

300 Level Electives - Credits: 12

Choose four of the following courses. May take any class up to three times.

- ART 305 - Advanced Studio Drawing Credits: 3
- ART 306 - Advanced Studio Painting Credits: 3
- ART 307 - Advanced Studio Photography Credits: 3
- ART 308 - Advanced Studio Printmaking Credits: 3
- ART 309 - Advanced Studio Metalsmithing Credits: 3
- ART 310 - Advanced Studio Sculpture Credits: 3
- ART 311 - Advanced Studio Fiber Art Credits: 3
- ART 312 - Advanced Studio Ceramics Credits: 3
- ART 313 - Advanced Studio Graphic Design Credits: 3
- ART 314 - Advanced Studio Digital Media Credits: 3

400 Level Electives - Credits: 9

Choose three of the following courses. May take any class up to two times.

- ART 405 - Senior Studio Drawing Credits: 3
- ART 406 - Senior Studio Painting Credits: 3
- ART 407 - Senior Studio Photography Credits: 3
- ART 408 - Senior Studio Printmaking Credits: 3
- ART 409 - Senior Studio Metalsmithing Credits: 3
- ART 410 - Senior Studio Sculpture Credits: 3
- ART 411 - Senior Studio Fiber Art Credits: 3
- ART 412 - Senior Studio Ceramics Credits: 3
- ART 413 - Senior Studio Graphic Design Credits: 3
- ART 414 - Senior Studio Digital Media Credits: 3

Art Electives - Credits: 9

Choose from 300-400 level courses.

ART ____

ART ____

ART ____

Art (BFA) - Concentration in Photography

Major Requirements - Credits: 78

Required Courses - Credits: 18

- ART 100 - 2-D Design Credits: 3
- ART 101 - 3-D Design Credits: 3
- ART 105 - Basic Studio Drawing Credits: 3
- ART 225 - Overview of Western Art Credits: 3
- ART 226 - Overview of World Art Credits: 3
- ART 300 - Art Seminar Credits: 3

Art History Electives - Credits: 6

Choose two of the following courses.

- ART 325 - North American Art History Credits: 3
- ART 335 - The Renaissance Tradition Credits: 3
- ART 345 - Foundations of Modern Art Credits: 3
- ART 355 - Early Modern Art Credits: 3
- ART 365 - Art Since 1945 Credits: 3
- ART 420 - Art History Seminar Credits: 3

Photography Concentration - Credits: 15

Painting Concentration Electives - Credits: 12

Choose from the following courses (12 credits) (any combination of courses) (concentration courses will count towards BFA studio requirements) (200-400 level courses are repeatable).

- ART 107 - Basic Studio Photography Credits: 3 (Credits: 0-3)
- ART 207 - Intermediate Studio Photography Credits: 3 (Credits: 0-6)
- ART 307 - Advanced Studio Photography Credits: 3 (Credits: 0-9)
- ART 407 - Senior Studio Photography Credits: 3 (Credits: 0-6)

Painting 1st Concentration Required Capstone Course - Credits: 3

- ART 427 - Senior Project Photography Credits: 3

Additional Studio Requirements - Credits: 45

100 Level Electives - Credits: 9

Choose three of the following courses. No class may be repeated.

- ART 106 - Basic Studio Painting Credits: 3
- ART 108 - Basic Studio Printmaking Credits: 3
- ART 109 - Basic Studio Metalsmithing Credits: 3
- ART 110 - Basic Studio Sculpture Credits: 3
- ART 111 - Basic Studio Fiber Art Credits: 3
- ART 112 - Basic Studio Ceramics Credits: 3
- ART 114 - Basic Studio Digital Media Credits: 3

200 Level Electives - Credits: 12

Choose four of the following courses. May take any class twice.

- ART 205 - Intermediate Studio Drawing Credits: 3
- ART 206 - Intermediate Studio Painting Credits: 3
- ART 207 - Intermediate Studio Photography Credits: 3
- ART 208 - Intermediate Studio Printmaking Credits: 3
- ART 209 - Intermediate Studio Metalsmithing Credits: 3
- ART 210 - Intermediate Studio Sculpture Credits: 3
- ART 211 - Intermediate Studio Fiber Art Credits: 3
- ART 212 - Intermediate Studio Ceramics Credits: 3
- ART 213 - Intermediate Studio Graphic Design Credits: 3
- ART 214 - Intermediate Studio Digital Media Credits: 3

300 Level Electives - Credits: 12

Choose four of the following courses. May take any class up to three times.

- ART 305 - Advanced Studio Drawing Credits: 3
- ART 306 - Advanced Studio Painting Credits: 3
- ART 307 - Advanced Studio Photography Credits: 3
- ART 308 - Advanced Studio Printmaking Credits: 3
- ART 309 - Advanced Studio Metalsmithing Credits: 3
- ART 310 - Advanced Studio Sculpture Credits: 3
- ART 311 - Advanced Studio Fiber Art Credits: 3
- ART 312 - Advanced Studio Ceramics Credits: 3
- ART 313 - Advanced Studio Graphic Design Credits: 3
- ART 314 - Advanced Studio Digital Media Credits: 3

400 Level Electives - Credits: 9

Choose three of the following courses. May take any class up to two times.

- ART 405 - Senior Studio Drawing Credits: 3
- ART 406 - Senior Studio Painting Credits: 3
- ART 407 - Senior Studio Photography Credits: 3
- ART 408 - Senior Studio Printmaking Credits: 3
- ART 409 - Senior Studio Metalsmithing Credits: 3
- ART 410 - Senior Studio Sculpture Credits: 3
- ART 411 - Senior Studio Fiber Art Credits: 3
- ART 412 - Senior Studio Ceramics Credits: 3
- ART 413 - Senior Studio Graphic Design Credits: 3
- ART 414 - Senior Studio Digital Media Credits: 3

Art Electives - Credits: 9

Choose from 300-400 level courses.

ART ____

ART ____

ART ____

Art (BFA) - Concentration in Printmaking

Major Requirements - Credits: 78

Required Courses - Credits: 18

- ART 100 - 2-D Design Credits: 3
- ART 101 - 3-D Design Credits: 3
- ART 105 - Basic Studio Drawing Credits: 3
- ART 225 - Overview of Western Art Credits: 3

- ART 226 - Overview of World Art Credits: 3
- ART 300 - Art Seminar Credits: 3

Art History Electives - Credits: 6

Choose two of the following courses.

- ART 325 - North American Art History Credits: 3
- ART 335 - The Renaissance Tradition Credits: 3
- ART 345 - Foundations of Modern Art Credits: 3
- ART 355 - Early Modern Art Credits: 3
- ART 365 - Art Since 1945 Credits: 3
- ART 420 - Art History Seminar Credits: 3

Printmaking Concentration - Credits: 15

Printmaking Concentration Electives - Credits: 12

Choose from the following courses (12 credits) (any combination of courses) (concentration courses will count towards BFA studio requirements) (200-400 level courses are repeatable).

- ART 108 - Basic Studio Printmaking Credits: 3 (Credits: 0-3)
- ART 208 - Intermediate Studio Printmaking Credits: 3 (Credits: 0-6)
- ART 308 - Advanced Studio Printmaking Credits: 3 (Credits: 0-9)
- ART 408 - Senior Studio Printmaking Credits: 3 (Credits: 0-6)

Printmaking 1st Concentration Required Capstone Course - Credits: 3

- ART 428 - Senior Project Printmaking Credits: 3

Additional Studio Requirements - Credits: 45

100 Level Electives - Credits: 9

Choose three of the following courses. No class may be repeated.

- ART 106 - Basic Studio Painting Credits: 3
- ART 107 - Basic Studio Photography Credits: 3
- ART 109 - Basic Studio Metalsmithing Credits: 3
- ART 110 - Basic Studio Sculpture Credits: 3
- ART 111 - Basic Studio Fiber Art Credits: 3
- ART 112 - Basic Studio Ceramics Credits: 3
- ART 114 - Basic Studio Digital Media Credits: 3

200 Level Electives - Credits: 12

Choose four of the following courses. May take any class twice.

- ART 205 - Intermediate Studio Drawing Credits: 3
- ART 206 - Intermediate Studio Painting Credits: 3
- ART 207 - Intermediate Studio Photography Credits: 3
- ART 208 - Intermediate Studio Printmaking Credits: 3
- ART 209 - Intermediate Studio Metalsmithing Credits: 3
- ART 210 - Intermediate Studio Sculpture Credits: 3
- ART 211 - Intermediate Studio Fiber Art Credits: 3
- ART 212 - Intermediate Studio Ceramics Credits: 3
- ART 213 - Intermediate Studio Graphic Design Credits: 3
- ART 214 - Intermediate Studio Digital Media Credits: 3

300 Level Electives - Credits: 12

Choose four of the following courses. May take any class up to three times.

- ART 305 - Advanced Studio Drawing Credits: 3
- ART 306 - Advanced Studio Painting Credits: 3
- ART 307 - Advanced Studio Photography Credits: 3
- ART 308 - Advanced Studio Printmaking Credits: 3
- ART 309 - Advanced Studio Metalsmithing Credits: 3
- ART 310 - Advanced Studio Sculpture Credits: 3
- ART 311 - Advanced Studio Fiber Art Credits: 3
- ART 312 - Advanced Studio Ceramics Credits: 3
- ART 313 - Advanced Studio Graphic Design Credits: 3
- ART 314 - Advanced Studio Digital Media Credits: 3

400 Level Electives - Credits: 9

Choose three of the following courses. May take any class up to two times.

- ART 405 - Senior Studio Drawing Credits: 3
- ART 406 - Senior Studio Painting Credits: 3
- ART 407 - Senior Studio Photography Credits: 3
- ART 408 - Senior Studio Printmaking Credits: 3
- ART 409 - Senior Studio Metalsmithing Credits: 3
- ART 410 - Senior Studio Sculpture Credits: 3
- ART 411 - Senior Studio Fiber Art Credits: 3
- ART 412 - Senior Studio Ceramics Credits: 3
- ART 413 - Senior Studio Graphic Design Credits: 3
- ART 414 - Senior Studio Digital Media Credits: 3

Art Electives - Credits: 9

Choose from 300-400 level courses.

ART ____

ART ____

ART ____

Art (BFA) - Concentration in Psychology

The Art BFA with a Concentration in Psychology gives Bachelor of Fine Arts majors the option to declare a concentration in Psychology. The program will serve as a preparation for Art Therapy Graduate programs.

Requirements for the major - Credits: 78

Required Courses - Credits: 18

- ART 100 - 2-D Design Credits: 3
- ART 101 - 3-D Design Credits: 3
- ART 105 - Basic Studio Drawing Credits: 3
- ART 225 - Overview of Western Art Credits: 3
- ART 226 - Overview of World Art Credits: 3
- ART 300 - Art Seminar Credits: 3

Art History Electives - Credits: 6

Choose two of the following courses.

- ART 325 - North American Art History Credits: 3
- ART 335 - The Renaissance Tradition Credits: 3
- ART 345 - Foundations of Modern Art Credits: 3
- ART 355 - Early Modern Art Credits: 3
- ART 365 - Art Since 1945 Credits: 3
- ART 420 - Art History Seminar Credits: 3

100 Level Electives - Credits: 9

Choose three of the following courses. No class may be repeated.

- ART 106 - Basic Studio Painting Credits: 3
- ART 107 - Basic Studio Photography Credits: 3
- ART 108 - Basic Studio Printmaking Credits: 3
- ART 109 - Basic Studio Metalsmithing Credits: 3
- ART 110 - Basic Studio Sculpture Credits: 3
- ART 111 - Basic Studio Fiber Art Credits: 3
- ART 112 - Basic Studio Ceramics Credits: 3
- ART 114 - Basic Studio Digital Media Credits: 3

200 Level Electives - Credits: 12

Choose four of the following courses. May take any class twice.

- ART 205 - Intermediate Studio Drawing Credits: 3

- ART 206 - Intermediate Studio Painting Credits: 3
- ART 207 - Intermediate Studio Photography Credits: 3
- ART 208 - Intermediate Studio Printmaking Credits: 3
- ART 209 - Intermediate Studio Metalsmithing Credits: 3
- ART 210 - Intermediate Studio Sculpture Credits: 3
- ART 211 - Intermediate Studio Fiber Art Credits: 3
- ART 212 - Intermediate Studio Ceramics Credits: 3
- ART 213 - Intermediate Studio Graphic Design Credits: 3
- ART 214 - Intermediate Studio Digital Media Credits: 3

300 Level Electives - Credits: 12

Choose four of the following courses. May take any class up to three times.

- ART 305 - Advanced Studio Drawing Credits: 3
- ART 306 - Advanced Studio Painting Credits: 3
- ART 307 - Advanced Studio Photography Credits: 3
- ART 308 - Advanced Studio Printmaking Credits: 3
- ART 309 - Advanced Studio Metalsmithing Credits: 3
- ART 310 - Advanced Studio Sculpture Credits: 3
- ART 311 - Advanced Studio Fiber Art Credits: 3
- ART 312 - Advanced Studio Ceramics Credits: 3
- ART 313 - Advanced Studio Graphic Design Credits: 3
- ART 314 - Advanced Studio Digital Media Credits: 3

400 Level Electives - Credits: 9

Choose three of the following courses. May take any class up to two times.

- ART 405 - Senior Studio Drawing Credits: 3
- ART 406 - Senior Studio Painting Credits: 3
- ART 407 - Senior Studio Photography Credits: 3
- ART 408 - Senior Studio Printmaking Credits: 3
- ART 409 - Senior Studio Metalsmithing Credits: 3
- ART 410 - Senior Studio Sculpture Credits: 3
- ART 411 - Senior Studio Fiber Art Credits: 3
- ART 412 - Senior Studio Ceramics Credits: 3
- ART 413 - Senior Studio Graphic Design Credits: 3
- ART 414 - Senior Studio Digital Media Credits: 3

SR Project - Credits: 3

400-level pre-req or permission of instructor.

- ART 425 - Senior Project Drawing Credits: 3
- ART 426 - Senior Project Painting Credits: 3
- ART 427 - Senior Project Photography Credits: 3
- ART 428 - Senior Project Printmaking Credits: 3

- ART 429 - Senior Project Metalsmithing Credits: 3
- ART 430 - Senior Project Sculpture Credits: 3
- ART 431 - Senior Project Fiber Art Credits: 3
- ART 432 - Senior Project Ceramics Credits: 3
- ART 433 - Senior Project Graphic Design Credits: 3
- ART 434 - Senior Project Digital Media Credits: 3

Art Electives - Credits: 9

Choose from 300-400 level courses.

ART _____

ART _____

ART _____

Art (BFA) - Concentration in Sculpture

Major Requirements - Credits: 78

Required Courses - Credits: 18

- ART 100 - 2-D Design Credits: 3
- ART 101 - 3-D Design Credits: 3
- ART 105 - Basic Studio Drawing Credits: 3
- ART 225 - Overview of Western Art Credits: 3
- ART 226 - Overview of World Art Credits: 3
- ART 300 - Art Seminar Credits: 3

Art History Electives - Credits: 6

Choose two of the following courses.

- ART 325 - North American Art History Credits: 3
- ART 335 - The Renaissance Tradition Credits: 3
- ART 345 - Foundations of Modern Art Credits: 3
- ART 355 - Early Modern Art Credits: 3
- ART 365 - Art Since 1945 Credits: 3
- ART 420 - Art History Seminar Credits: 3

Sculpture Concentration - Credits: 15

Sculpture Concentration - Credits: 15

Choose from the following courses (12 credits) (any combination of courses) (concentration courses will count towards BFA studio requirements) (200-400 level courses are repeatable).

- ART 110 - Basic Studio Sculpture Credits: 3 (Credits: 0-3)
- ART 210 - Intermediate Studio Sculpture Credits: 3 (Credits: 0-6)
- ART 310 - Advanced Studio Sculpture Credits: 3 (Credits: 0-9)
- ART 410 - Senior Studio Sculpture Credits: 3 (Credits: 0-6)

Sculpture 1st Concentration Required Capstone Course - Credits: 3

- ART 430 - Senior Project Sculpture Credits: 3

Additional Studio Requirements - Credits: 45

100 Level Electives - Credits: 9

Choose three of the following courses. No class may be repeated.

- ART 106 - Basic Studio Painting Credits: 3
- ART 107 - Basic Studio Photography Credits: 3
- ART 108 - Basic Studio Printmaking Credits: 3
- ART 109 - Basic Studio Metalsmithing Credits: 3
- ART 111 - Basic Studio Fiber Art Credits: 3
- ART 112 - Basic Studio Ceramics Credits: 3
- ART 114 - Basic Studio Digital Media Credits: 3

200 Level Electives - Credits: 12

Choose four of the following courses. May take any class twice.

- ART 205 - Intermediate Studio Drawing Credits: 3
- ART 206 - Intermediate Studio Painting Credits: 3
- ART 207 - Intermediate Studio Photography Credits: 3
- ART 208 - Intermediate Studio Printmaking Credits: 3
- ART 209 - Intermediate Studio Metalsmithing Credits: 3
- ART 210 - Intermediate Studio Sculpture Credits: 3
- ART 211 - Intermediate Studio Fiber Art Credits: 3
- ART 212 - Intermediate Studio Ceramics Credits: 3
- ART 213 - Intermediate Studio Graphic Design Credits: 3
- ART 214 - Intermediate Studio Digital Media Credits: 3

300 Level Electives - Credits: 12

Choose four of the following courses. May take any class up to three times.

- ART 305 - Advanced Studio Drawing Credits: 3

- ART 306 - Advanced Studio Painting Credits: 3
- ART 307 - Advanced Studio Photography Credits: 3
- ART 308 - Advanced Studio Printmaking Credits: 3
- ART 309 - Advanced Studio Metalsmithing Credits: 3
- ART 310 - Advanced Studio Sculpture Credits: 3
- ART 311 - Advanced Studio Fiber Art Credits: 3
- ART 312 - Advanced Studio Ceramics Credits: 3
- ART 313 - Advanced Studio Graphic Design Credits: 3
- ART 314 - Advanced Studio Digital Media Credits: 3

400 Level Electives - Credits: 9

Choose three of the following courses. May take any class up to two times.

- ART 405 - Senior Studio Drawing Credits: 3
- ART 406 - Senior Studio Painting Credits: 3
- ART 407 - Senior Studio Photography Credits: 3
- ART 408 - Senior Studio Printmaking Credits: 3
- ART 409 - Senior Studio Metalsmithing Credits: 3
- ART 410 - Senior Studio Sculpture Credits: 3
- ART 411 - Senior Studio Fiber Art Credits: 3
- ART 412 - Senior Studio Ceramics Credits: 3
- ART 413 - Senior Studio Graphic Design Credits: 3
- ART 414 - Senior Studio Digital Media Credits: 3

Art Electives - Credits: 9

Choose from 300-400 level courses.

ART ____

ART ____

ART ____

Certificate in Art: Design

Students obtaining a Certificate in Art: Design will develop an understanding of the design process, and will learn how to compose technical, non-technical and expressive information into attractive and visually clear and concise forms. Students from a wide range of degree programs will focus on the presentation of discipline-based subject matter using digital and traditional methods of representation of facts. Artwork will range from an expressive response to subject matter to a creative representation of facts. The skills developed in this program will augment students' communication skills and enhance possible career opportunities.

The Certificate in Art: Design will also be attractive to individuals not currently affiliated with SRU. Design skills will help a candidate organize visual information in any field of study, and will be useful in the pursuit of a wide variety of personal projects and/or career directions.

Courses needed to satisfy the requirements of the program

A minimum of 12 credit hours is recommended

Required Courses

6 credits from the following:

- ART 100 - 2-D Design Credits: 3 (permission required for non-art majors)
OR
- ART 114 - Basic Studio Digital Media Credits: 3
AND
- ART 213 - Intermediate Studio Graphic Design Credits: 3 (repeatable)

Elective Courses

Need 6 credits, choose from the following repeatable courses:

- ART 213 - Intermediate Studio Graphic Design Credits: 3
- ART 313 - Advanced Studio Graphic Design Credits: 3
- ART 413 - Senior Studio Graphic Design Credits: 3
- ART 433 - Senior Project Graphic Design Credits: 3 (Capstone course for BFA students, with permission of instructor)

Certificate in Art: Digital Media

Students obtaining a Certificate in Art: Digital Media will have the opportunity to explore a wide range of digitally based or enhanced methods of artistic production. Through the prescribed sequence of courses, students will study historical and contemporary approaches to Digital Art, as well as develop skills and understandings applicable to two-dimensional, three-dimensional, time-based and potentially other forms of Digital Art. Students will compile a focused Digital Art portfolio as they develop a personal artistic stance and enact their individual artistic visions.

Courses needed to satisfy the requirements for the program

A minimum of 12 credit hours is recommended

Elective Courses

Choose 12 credits from the following:

- ART 114 - Basic Studio Digital Media Credits: 3
- ART 214 - Intermediate Studio Digital Media Credits: 3 (repeatable course)
- ART 314 - Advanced Studio Digital Media Credits: 3 (repeatable course)
- ART 414 - Senior Studio Digital Media Credits: 3 (repeatable course)
- ART 434 - Senior Project Digital Media Credits: 3 (Capstone course for BFFA students, with permission of instructor)

Certificate in Art: Graphic Design

The ability to compose technical and non-technical information into an attractive and visually clear and concise form will help in the design and presentation of a wide range of conceptual and/or subject-specific projects. Candidates will gain an understanding of design-related concepts and experience with graphic design software in the communication of ideas. The skills developed in this program, and in the inclusion of projects produced in the program in an application portfolio, will improve a candidate's qualifications and job prospects.

Courses needed to satisfy the requirements for the program

A minimum of 12 credit hours is recommended

Required Courses

Choose 12 credits from the following courses:

- ART 100 - 2-D Design Credits: 3 (permission required for non-art majors)
OR
- ART 213 - Intermediate Studio Graphic Design Credits: 3 (repeatable)
- ART 114 - Basic Studio Digital Media Credits: 3
- COMM 232 - Publication Production Credits: 3
- COMM 334 - Publication Production Credits: 3

Elective Courses

3 credits, choose from the following repeatable courses:

- ART 207 - Intermediate Studio Photography Credits: 3
- ART 213 - Intermediate Studio Graphic Design Credits: 3
- ART 214 - Intermediate Studio Digital Media Credits: 3
- ART 307 - Advanced Studio Photography Credits: 3
- ART 313 - Advanced Studio Graphic Design Credits: 3
- ART 314 - Advanced Studio Digital Media Credits: 3
- ART 407 - Senior Studio Photography Credits: 3
- ART 413 - Senior Studio Graphic Design Credits: 3
- ART 414 - Senior Studio Digital Media Credits: 3

Certificate in Art: Photography

Students obtaining a Certificate in Art: Photography will have the opportunity to explore a wide range of analog and digital approaches to fine art photography. Photographic skills, techniques and concepts will be expanded, honed and potentially utilized with other media as students follow individual artistic directions. Students will develop and maintain a cohesive photographic portfolio suitable for public presentation.

Courses needed to satisfy the requirements for the program

A minimum of 12 credit hours is recommended

Elective Courses

Choose 12 credits from the following:

- ART 107 - Basic Studio Photography Credits: 3
- ART 207 - Intermediate Studio Photography Credits: 3 (repeatable course)
- ART 307 - Advanced Studio Photography Credits: 3 (repeatable course)
- ART 407 - Senior Studio Photography Credits: 3 (repeatable course)
- ART 427 - Senior Project Photography Credits: 3 (Capstone course for BFA students, with permission of instructor)

Minor in Art

Art Department

General Art - 21 Credits

6 Credits are at the 300 or 400 level

Choose One Basic Studio 2-D Emphasis

- ART 105 - Basic Studio Drawing Credits: 3
- ART 106 - Basic Studio Painting Credits: 3
- ART 107 - Basic Studio Photography Credits: 3
- ART 108 - Basic Studio Printmaking Credits: 3
- ART 114 - Basic Studio Digital Media Credits: 3

Choose One Basic Studio 3-D Emphasis

- ART 109 - Basic Studio Metalsmithing Credits: 3
- ART 110 - Basic Studio Sculpture Credits: 3
- ART 111 - Basic Studio Fiber Art Credits: 3
- ART 112 - Basic Studio Ceramics Credits: 3

Choose One Art History Course:

No class may be repeated for additional credit.

- ART 225 - Overview of Western Art Credits: 3
- ART 226 - Overview of World Art Credits: 3
- ART 325 - North American Art History Credits: 3
- ART 335 - The Renaissance Tradition Credits: 3
- ART 345 - Foundations of Modern Art Credits: 3
- ART 355 - Early Modern Art Credits: 3
- ART 365 - Art Since 1945 Credits: 3
- ART 420 - Art History Seminar Credits: 3

Art Synthesis Courses - 6 credits

Prerequisite: 3 credits from any 100 level studio

- ART 205 - Intermediate Studio Drawing Credits: 3
- ART 206 - Intermediate Studio Painting Credits: 3
- ART 207 - Intermediate Studio Photography Credits: 3
- ART 208 - Intermediate Studio Printmaking Credits: 3
- ART 209 - Intermediate Studio Metalsmithing Credits: 3
- ART 210 - Intermediate Studio Sculpture Credits: 3
- ART 211 - Intermediate Studio Fiber Art Credits: 3
- ART 212 - Intermediate Studio Ceramics Credits: 3
- ART 213 - Intermediate Studio Graphic Design Credits: 3
- ART 214 - Intermediate Studio Digital Media Credits: 3

Advanced Studio Courses - 6 credits

Prerequisite: 3 credits from any 200 level studio

- ART 305 - Advanced Studio Drawing Credits: 3
- ART 306 - Advanced Studio Painting Credits: 3
- ART 307 - Advanced Studio Photography Credits: 3
- ART 308 - Advanced Studio Printmaking Credits: 3
- ART 309 - Advanced Studio Metalsmithing Credits: 3
- ART 310 - Advanced Studio Sculpture Credits: 3
- ART 311 - Advanced Studio Fiber Art Credits: 3
- ART 312 - Advanced Studio Ceramics Credits: 3
- ART 313 - Advanced Studio Graphic Design Credits: 3
- ART 314 - Advanced Studio Digital Media Credits: 3

Minor in Art - Graphic Design Track for Communications Majors

Art Department

6 credits at the 300 or 400 level

Requirements for the Minor - Credits: 21

Basic Studio Courses - Credits: 9

- ART 100 - 2-D Design Credits: 3
- ART 107 - Basic Studio Photography Credits: 3
- ART 114 - Basic Studio Digital Media Credits: 3

Art Synthesis Course - Credits: 3

- ART 205 - Intermediate Studio Drawing Credits: 3

Advanced Studio Courses - Credits: 6

- ART 313 - Advanced Studio Graphic Design Credits: 3
- ART 314 - Advanced Studio Digital Media Credits: 3

Senior Studio Course - Credits: 3

Choose one of the following:

- ART 405 - Senior Studio Drawing Credits: 3
- ART 406 - Senior Studio Painting Credits: 3
- ART 407 - Senior Studio Photography Credits: 3
- ART 408 - Senior Studio Printmaking Credits: 3
- ART 413 - Senior Studio Graphic Design Credits: 3
- ART 414 - Senior Studio Digital Media Credits: 3

Other Recommended Courses

Recommended to fill Liberal Studies requirements:

- ART 208 - Intermediate Studio Printmaking Credits: 3
- ART 225 - Overview of Western Art Credits: 3
- ART 226 - Overview of World Art Credits: 3

Minor in Art for Elementary Education Majors

Art Department

Requirements for the Minor - Credits: 21

Required Courses - Credits: 9

- ART 105 - Basic Studio Drawing Credits: 3
- ART 225 - Overview of Western Art Credits: 3
- ART 317 - Elementary Art Methods and Materials Credits: 3

Basic 2D Studio Courses - Credits: 3

- ART 106 - Basic Studio Painting Credits: 3
- ART 107 - Basic Studio Photography Credits: 3
- ART 108 - Basic Studio Printmaking Credits: 3
- ART 114 - Basic Studio Digital Media Credits: 3

Basic 3D Studio Courses - Credits: 3

- ART 109 - Basic Studio Metalsmithing Credits: 3
- ART 110 - Basic Studio Sculpture Credits: 3
- ART 111 - Basic Studio Fiber Art Credits: 3
- ART 112 - Basic Studio Ceramics Credits: 3

Art Synthesis Course - Credits: 3

- ART 205 - Intermediate Studio Drawing Credits: 3
- ART 206 - Intermediate Studio Painting Credits: 3
- ART 207 - Intermediate Studio Photography Credits: 3
- ART 208 - Intermediate Studio Printmaking Credits: 3
- ART 209 - Intermediate Studio Metalsmithing Credits: 3
- ART 210 - Intermediate Studio Sculpture Credits: 3
- ART 211 - Intermediate Studio Fiber Art Credits: 3
- ART 212 - Intermediate Studio Ceramics Credits: 3
- ART 213 - Intermediate Studio Graphic Design Credits: 3
- ART 214 - Intermediate Studio Digital Media Credits: 3

Advanced Studio Course - Credits: 3

- ART 305 - Advanced Studio Drawing Credits: 3
- ART 306 - Advanced Studio Painting Credits: 3
- ART 307 - Advanced Studio Photography Credits: 3
- ART 308 - Advanced Studio Printmaking Credits: 3
- ART 309 - Advanced Studio Metalsmithing Credits: 3
- ART 310 - Advanced Studio Sculpture Credits: 3
- ART 311 - Advanced Studio Fiber Art Credits: 3
- ART 312 - Advanced Studio Ceramics Credits: 3
- ART 313 - Advanced Studio Graphic Design Credits: 3
- ART 314 - Advanced Studio Digital Media Credits: 3

Minor in Art History

Art Department

Requirements for the Minor - Credits: 18

Required Art Courses - Credits: 6

- ART 225 - Overview of Western Art Credits: 3
- ART 226 - Overview of World Art Credits: 3

Elective Courses - Credits: 12

No course may be repeated for additional credit.

- ART 325 - North American Art History Credits: 3
- ART 335 - The Renaissance Tradition Credits: 3
- ART 345 - Foundations of Modern Art Credits: 3
- ART 355 - Early Modern Art Credits: 3
- ART 365 - Art Since 1945 Credits: 3
- ART 420 - Art History Seminar Credits: 3

Minor in Nonprofit Management in Art

Minor Requirements - Credits: 18

- ART 113 Basic Studio Graphic Design Credits: 3
- ART 450 Internship Credits: 3
- ENGL 429 - Grant and Proposal Writing Credits: 3
- NLPA 220 Introduction to Nonprofit Management Credits: 3
- NLPA 305 Financial Best Practice for Decision Makers Credits: 3
- NLPA 320 Community Change and Development Credits: 3

Asian Studies

Asian Studies

Coordinator

Sunita Peacock, SWC 317-I, (724) 738-2354, sunita.peacock@sru.edu

Faculty

Wei Bian, George Brown, Aksel Casson, Xianfeng Chen, Andrew Colvi, Margaret Denning, Richard Findler, Yukako Ishimaru, J. Sunita Peacock, Armand Policicchio, Pragati Rawat, Jialing Wang, and visiting professors from China, India, Japan, and Korea.

The Asian Studies Minor and Program at Slippery Rock University offers students the opportunity to learn about Asian cultures, history, geography, politics and languages, and supports study abroad programs in China, Japan, Korea, and India. The Asian Studies Program is an interdisciplinary program that includes courses and faculty from several disciplines, including Asian Studies, Modern Languages and Cultures (Chinese and Japanese), History, Geography, Political Science, English, Philosophy and Anthropology (Interdisciplinary Programs). The Asian Studies Program seeks to prepare students to understand a region that includes some of the oldest civilizations on our planet, the world's second and third largest economies (Japan and China), and 60% percent of the global population. For more information go to Asian Studies Program.

Criminology and Criminal Justice

Criminology and Criminal Justice Department

Our department offers a BA in Criminology and Criminal Justice and an MA degree in Criminal Justice. Our undergraduate degree program provides a foundation of knowledge needed for students interested in a variety of careers in the following areas:

- law enforcement
- probation and parole
- court administrator
- treatment specialist
- justice system

Our mission is to enrich the criminal justice community of Pennsylvania and the nation with ethically and critically informed graduates. We accomplish this by being recognized as a premier provider of rigorous, accessible, and high quality educational experience to learners in Pennsylvania and beyond.

Office: 211 Spotts World Culture Building

Phone: 724-738-2084

Email: criminology@sru.edu

Chair

Rebecca Ridener, PhD

Secretary

Kathleen Dombeck

Faculty

David Champion, Kerry Edwards, Xin Jiang, Sarah Kuehn, D. Neil McEwen, Jon McLister, Rebecca Ridener, Youngyol Yim Schanz, Samuel Staples

Slippery Rock University's Bachelor's in Criminology and Criminal Justice program prepares students for successful careers in the justice system—a space that is constantly changing within a framework that can be traced back to the Magna Carta. That's why an effective Criminal Justice professional has a breadth and depth of knowledge, with the ethical standards to successfully apply their expertise. SRU's major in Criminology and Criminal Justice will help you become just that.

Offering a premier program, Slippery Rock University will prepare you to become a knowledgeable and skilled criminal justice professional. Your coursework will ensure that you have the skills to meet the challenges of the workplace as you begin your career. SRU also offers an accelerated curriculum that allows you to complete a BA and an MA in just four years!

The Criminology and Criminal Justice curriculum includes classes in criminological theory, policing, courts and adjudication, corrections, research methodology, and justice administration.

Beyond coursework, we encourage students to learn from their experiences on campus and in the community. Student organizations such as CRIM Club, Alpha Phi Sigma, and Pre-Law Advisement allow students to collaborate and share ideas.

In addition to networking with other students, internships are an important facet of the program. SRU offers an optional internship to qualified students. In the past, students have interned at places such as the Department of Homeland Security, the U.S. Secret Service, the U.S. Marshals Office, and at local Pennsylvania agencies.

Internships give Criminology and Criminal Justice majors an advantage on the job market as they pursue careers in law enforcement, corrections, juvenile casework, probation, and parole. The solid foundation that students gain from SRU's program also prepare them for advanced graduate study.

In addition to the major, the department offers a minor in criminology, a specialization in Community Corrections, and a certificate in Criminal Justice and Spanish Cultural & Language Competency.

Students are encouraged to examine the Department of Criminology and Criminal Justice's website and/or contact the department for more detailed information about courses, activities, student organizations, career information for the concentration and graduate student opportunities.

Certificate in Criminal Justice and Spanish Cultural & Language Competency

The Certificate in Criminal Justice and Spanish Cultural & Language Competency prepares students to speak conversational Spanish and to gain competency in Spanish cultures and literature. This certificate represents a valuable credential for those seeking to enter a criminal justice profession that often demands practical skills in understanding and working with diverse cultures.

In 2016, the US Census Bureau reported that Hispanics constitute 17.6% of the US population. In 2014, the Bureau of Justice Statistics reported that 22% of the US prison population is Hispanic. In 2015, the Bureau of Justice Statistics reported that the proportion of Hispanic police officers has more than doubled (to 12%) since 1987. In addition, the US Department of Justice has reinforced the importance of US-Mexican law enforcement cooperation in combatting serious threats such as the drug trade and human trafficking. The relevance of Hispanic culture in the criminal justice system is clearly significant.

This certificate is designed to enhance your knowledge of the Spanish language and culture and its significance in the criminal justice professions. Criminal justice graduates with Spanish competency will distinguish themselves from others entering the field. This is because you will be able to converse with Spanish-speaking law enforcement officers, witnesses, or clients and make yourself more marketable in areas with large Hispanic populations.

With this certificate, and a Criminology and Criminal Justice degree, you can pursue any number of traditional criminal justice jobs and you will be better prepared for career paths with the US Customs and Border Protection, FBI, DEA and TSA, as well as state and local authorities in areas with a high Hispanic population.

Certificate in Criminal Justice and Spanish Cultural & Language Competency - Credits: 15

Required Spanish Courses: Credits 3

- SPAN 103 - Spanish Language & Culture III Credits: 3
OR
- SPAN 104 - Situational Spanish Credits: 3

Electives Spanish: Credits 6

- SPAN 200 - Spanish Grammar and Composition I Credits: 3
- SPAN 201 - Spanish Conversation I Credits: 3
- SPAN 215 - Topics in Hispanic Culture Credits: 3
- SPAN 220 - Reading in Spanish Credits: 3

Electives Criminology and Criminal Justice: Credits 6

- (CRIM 343 - Criminal Investigations Credits: 3
and
- CRIM 360 - Police and Society Credits: 3)
OR
- (CRIM 380 - Women & the Criminal Justice System Credits: 3
and
- CRIM 404 - Applied Criminal Procedures Credits: 3)

Certificate in Re-Entry Nonprofit Organization

Students who complete this certificate of academic achievement will:

- Gain professional proficiency in the field of criminal justice (with additional emphasis on re-entry) and nonprofit leadership.
- Develop skills in critical thinking and synthesis and analysis of information pertaining to criminal justice, community policy making, nonprofit sector, resource development, and income generation.
- Understand the role of ethics and morality in criminal justice and the nonprofit sector.

Students can receive a document of academic achievement upon completion.

Required Courses - Credits: 15

- CRIM 110 - Introduction to Criminology and Criminal Justice Systems Credits: 3
- CRIM 416 - Community Corrections Credits: 3
- INDP 120 - Civic Engagement and Community Decision-Making Credits: 3
- INDP 220 - Introduction to Nonprofit Management Credits: 3
- INDP 325 - Social and Ethical Issues in Philanthropy and Fundraising Credits: 3

Community Corrections (Optional Specialization for Criminology and Criminal Justice majors)

Criminology and Criminal Justice Department

The Community Corrections Specialization was developed to give interested Criminology and Criminal Justice students an opportunity to develop specific knowledge and skills in the area of community corrections. Criminology students will take classes in the Psychology and Social Work department to complete this interdisciplinary specialization.

Due in large part to the massive prison overcrowding of the past several decades and the costs that have accompanied this growth, the importance of community corrections has risen drastically. Community corrections are now commonly utilized as alternatives to incarceration and it involves rehabilitation and supervision strategies within our communities. Consequently, there is a need for qualified personnel in this field and the community correction specialization prepares Criminology and Criminal Justice graduates for this type of work.

With this specialization, Criminology and Criminal Justice majors will enhance their knowledge in community corrections, which are sanctions imposed on convicted adults or adjudicated juveniles that occur in a residential or community setting outside of jail or prison and include, among other options, probation, parole, halfway houses, and treatment centers. This is an interdisciplinary specialization.

Required Courses - 15 credits

- CRIM 416 - Community Corrections Credits: 3
- PSYC 276 - Introduction to Abnormal Psychology Credits: 3
OR
- SOWK 334 - Clinical Perspectives on DSM Diagnoses Credits: 3
- PSYC 321 - Drugs and Behavior Credits: 3
- SOWK 355 - Social Work Practice with Individuals Credits: 3
- SOWK 356 - Social Work Practice with Groups and Families Credits: 3

Criminology and Criminal Justice (BA) and Optional Specialization

The BA in Criminology and Criminal Justice provides a foundation of knowledge for students interested in a variety of careers both in and out of the formal justice system. This degree program covers criminological theory, policing, courts and adjudication, corrections, research methodology, justice administration and special topics of criminal justice. The BA in Criminology and Criminal Justice prepares students for careers in law enforcement, corrections, juvenile casework, probation, parole, and other careers in the criminal justice system. It also provides a foundation for students who wish to pursue advanced degrees in the study of criminology and justice studies.

All students entering the Criminology major must maintain an overall GPA of 2.5 and a major GPA of 2.0, in order to graduate with a Bachelor of Arts Degree in Criminology and Criminal Justice. All change of major or readmit students must have an overall GPA of 2.5 before being admitted to the Criminology major. All transfer students will have until their second semester to meet the Criminology and Criminal Justice major minimum GPA standard of 2.5. Any student who has failed to maintain academic (GPA) standards will be permitted a one-semester probationary term to re-establish good standing.

Requirements for the Major - Credits: 39

Program updates shown here are effective Spring 2015

Core Courses - Credits: 33

- CRIM 105 - Human Diversity Credits: 3
OR
- SOWK 105 - Human Diversity Credits: 3

OR

- SOWK 107 - Cultural Competency and Human Services Credits: 3
- CRIM 110 - Introduction to Criminology and Criminal Justice Systems Credits: 3
- CRIM 115 - Proseminar Credits: 1
- CRIM 253 - American Policing Credits: 3
- CRIM 263 - Introduction to Criminal Procedure Credits: 3
- CRIM 273 - American Corrections Credits: 3
- CRIM 301 - Theoretical Criminology Credits: 3
- CRIM 317 - Statistical Methods in Criminology and Criminal Justice Credits: 3
- CRIM 318 - Research Methods in Criminology and Criminal Justice Credits: 3
- CRIM 345 - Juvenile Delinquency Credits: 3
- CRIM 408 - Capstone: Ethics and Criminal Justice Credits: 3

Major Electives - Credits: 9

Choose 6 credits from the following courses.

- CRIM 190 - Experimental Credits: 3
- CRIM 198 - Selected Topic Credits: 3
- CRIM 290 - Experimental Credits: 3
- CRIM 298 - Selected Topic Credits: 3
- CRIM 321 - Criminal Justice Interventions 1 Credits: 3
- CRIM 322 - Criminal Justice Interventions 2 Credits: 3
- CRIM 326 - Victimology Credits: 3
- CRIM 327 - Criminal Justice & the Multicultural Community Credits: 3
- CRIM 328 - Transnational Crime & Justice Credits: 3
- CRIM 343 - Criminal Investigations Credits: 3
- CRIM 360 - Police and Society Credits: 3
- CRIM 370 - Inside Out Views of Criminal Justice Issues Credits: 3
- CRIM 380 - Women & the Criminal Justice System Credits: 3
- CRIM 390 - Experimental Credits: 3
- CRIM 398 - Selected Topic Credits: 3
- CRIM 402 - Forensic Behavior: Crime and the Individual Credits: 3
- CRIM 404 - Applied Criminal Procedures Credits: 3
- CRIM 405 - White Collar Crime Credits: 3
- CRIM 414 - Criminal Justice Policy Credits: 3
- CRIM 416 - Community Corrections Credits: 3
- CRIM 422 - The Death Penalty Credits: 3
- CRIM 450 - Internship Credits: 1 to 12
- CRIM 468 - Crime and Media Credits: 3
- CRIM 498 - Selected Topics Credits: 1 to 3
- SOWK 334 - Clinical Perspectives on DSM Diagnoses Credits: 3

Community Corrections Specialization - 15 credits

Optional Specialization: This specialization is not part of the above major core/cognates. This specialization can be taken as part of the free electives component for Criminology majors.

- CRIM 416 - Community Corrections Credits: 3
- PSYC 276 - Introduction to Abnormal Psychology Credits: 3
- **OR**
- SOWK 334 - Clinical Perspectives on DSM Diagnoses Credits: 3
- SOWK 355 - Social Work Practice with Individuals Credits: 3
- SOWK 356 - Social Work Practice with Groups and Families Credits: 3
- PSYC 321 - Drugs and Behavior Credits: 3

Minor in Criminology

Criminology and Criminal Justice Department

Requirements for the Minor - Credits: 18

Required Courses - Credits: 12

- CRIM 110 - Introduction to Criminology and Criminal Justice Systems Credits: 3
- CRIM 253 - American Policing Credits: 3
- **OR**
- CRIM 263 - Introduction to Criminal Procedure Credits: 3
- **OR**
- CRIM 273 - American Corrections Credits: 3
- CRIM 301 - Theoretical Criminology Credits: 3
- CRIM 345 - Juvenile Delinquency Credits: 3

Electives - Credits: 6

Choose 2 courses from the following:

- CRIM 317 - Statistical Methods in Criminology and Criminal Justice Credits: 3
- CRIM 318 - Research Methods in Criminology and Criminal Justice Credits: 3
- CRIM 321 - Criminal Justice Interventions 1 Credits: 3
- CRIM 322 - Criminal Justice Interventions 2 Credits: 3
- CRIM 326 - Victimology Credits: 3
- CRIM 327 - Criminal Justice & the Multicultural Community Credits: 3
- CRIM 328 - Transnational Crime & Justice Credits: 3
- CRIM 343 - Criminal Investigations Credits: 3
- CSS 351 - Fraud Credits: 3
- CSS 352 - Law and Ethics in the Workplace Credits: 3
- CSS 354 - Risk Assessment and Fraud Credits: 3
- HSS 210 - Fundamentals of Terrorism Credits: 3
- CRIM 360 - Police and Society Credits: 3
- CRIM 380 - Women & the Criminal Justice System Credits: 3
- CRIM 390 - Experimental Credits: 3
- CRIM 398 - Selected Topic Credits: 3
- CRIM 402 - Forensic Behavior: Crime and the Individual Credits: 3
- CRIM 404 - Applied Criminal Procedures Credits: 3

- CRIM 405 - White Collar Crime Credits: 3
- CRIM 408 - Capstone: Ethics and Criminal Justice Credits: 3
- CRIM 414 - Criminal Justice Policy Credits: 3
- CRIM 416 - Community Corrections Credits: 3
- CRIM 422 - The Death Penalty Credits: 3
- HSS 441 - Terrorism Law & National Security Credits: 3
- CRIM 450 - Internship Credits: 1 to 12
- CRIM 468 - Crime and Media Credits: 3
- CRIM 490 - Independent Study Credits: 3
- CRIM 498 - Selected Topics Credits: 1 to 3

Dance

Pearl Stoner Instructional Complex-West Gym

Dance Office 115 West Gym

Temporary Location 211A Spotts World Culture Building until March 1, 2019

Dance

The Department of Dance at Slippery Rock University promotes dance as an art form through the creative, technical, expressive and intellectual development of each student in a personalized environment. Superior education in performance, choreography, and teaching with additional components of wellness for dance, dance technology, and intercultural experience, prepares students for their chosen profession and entrepreneurial role in society.

Chair

Ursula Payne

Secretary

Melanie Martin

Staff Musician

Andrew Hasenpflug

Faculty

Nora Ambrosio, Jennifer Keller, Jaya Mani, Ursula Payne, Melissa Teodoro, Lindsay Fisher Viatori

Temporary Faculty

Sara Caplan, Teena "Marie" Custer, Dr. Jessica Davis, Jesse Factor

Professor Emeritus

Professor Nola Nolen

Slippery Rock University - 2018-2020 Undergraduate Catalog

In general, the Professional environment of Dance and the performing arts in the 21st century is continuously evolving. Students pursuing a career in dance, increase their employability by understanding how teaching, performance, creativity, technology and entrepreneurial skills function together. The Department of Dance offers the Bachelor of Arts and Bachelor of Fine Arts degree programs. Dance BA or BFA majors can obtain a Master of Science Degree in

Adapted Physical Activity (offered by the Physical and Health Education Department). This innovative program is unique and is designed for dance majors who want to expand their credentials to integrate inclusive classrooms into dance, health, and wellness programs for people with disabilities of all ages. SRU students can also elect to minor in dance as a compliment to their major degree program.

The dance curriculum is designed for students seeking multilayered careers as dance professionals. It provides the advanced training needed to pursue performance, choreography, technology, administrative and teaching careers in dance and related fields. Students study contemporary dance practices in genres such as modern, jazz, ballet, Improvisation, partnering, hip-hop, afro-Colombian and classical Indian dance. Dance majors also develop advanced choreographic, leadership, pedagogy and research skills. Slippery Rock University is an accredited member of the National Association of Schools of Dance and the only Department of Dance in the State System of Higher Education.

Dance (BA)

Dance Department

Major required credits: 41-42

GPA requirements:

- 3.0 in major
- 2.7 overall

Requirements for the Major

Core Courses - Credits: 38

- DANC 100 - Dance: Art and Culture Credits: 3
- DANC 101 - Wellness for Dancers Credits: 3
- DANC 199 - LMA/Performance Techniques Credits: 2
- DANC 200 - Dance Composition I Credits: 3
- DANC 216 - Principles of Dance Production Credits: 3
- DANC 223 - Creative Dance for Children Credits: 2
- DANC 224 - Improvisation Credits: 2
- DANC 298 - Selected Topic Credits: 1 to 3
Selected Topics - World Dance Forms Credits: 2
- DANC 323 - Teaching of Dance Credits: 3
- DANC 324 - Music for Dance Credits: 3
- DANC 326 - Dance Kinesiology Credits: 3
- DANC 350 - Field Experience in Dance Technique Credits: 1
- DANC 419 - Dance in Contemporary Times Credits: 3
- DANC 420 - Modern Dance Technique: Level IV Credits: 2
- DANC 425 - Senior Capstone I: Dance Research Credits: 3

Additional Core Requirements - Credits: 3-4

Students must select from Group 1, Group 2, or Group 3

Group 1: Dance Theory and Practice (Technique)

Select two of the following courses totaling 4 credits bringing your total major credits to 42 for a BA in Dance.

- DANC 321 - Ballet III Credits: 2
- DANC 322 - Jazz III Credits: 2
- DANC 424 - Contemporary Partnering Credits: 2

Group 2: Composition and Technology

Select one of the following courses totaling 3 credits bringing your total major credits to 41 for a BA in Dance.

- DANC 271 - Dance Technology Credits: 3
- DANC 300 - Dance Composition II Credits: 3

Group 3: Social and Historical Perspectives

Select one of the following courses totaling 3 credits bringing your total major credits to 41 for a BA in Dance.

- DANC 305 - Society and Social Dance Credits: 3
- DANC 318 - Dance in the Political World Credits: 3

Electives

- DANC 299 - Dance Rehearsal & Production Credits: 1
- DANC 499 - Dance Rehearsal & Production Credits: 1

Dance Theory - Practice: Competency Based Requirements

Competency-based assessment constitutes the specification of knowledge, physical ability (technique) and proficiency. The application and synthesis of practice and theory competencies are required for employment in the dance field. The assessments developed by the dance faculty are flexible which allows the department to meet the changing demands of the dance field. In addition to successful completion of all Dance Core Courses, (including proficiency to Modern Dance IV), candidates for the Bachelor of Arts Degree in Dance from Slippery Rock university are required to demonstrate technical proficiency as indicated below:

- Modern Dance (Level IV Proficiency)
- Ballet (Level III Proficiency)
- Jazz (Level III Proficiency)

Demonstrated achievement of Level III technical proficiency in Ballet and Jazz will be determined by performance-based assessment of candidates for the BA Degree in Dance from Slippery Rock University by members of the dance faculty.

Dance (BFA) - w/Business Administration Specialization

The BFA will provide excellent dance education and advanced training, performance, and choreography, along with elective areas of focus in business administration and dance technology. This innovative professional program will prepare dance majors at SRU for diverse professional performance and choreography opportunities in entertainment and concert dance, private studio and business ownership, and administrative careers in the field.

Bachelor of Fine Arts in Dance - Credits: 65

The BFA program targets a diverse population interested in a traditional four year program that has the feeling of a conservatoire with a strong business orientation within a liberal arts setting. Aside from the business courses, Dance BFA students will have to take more advanced courses in performance, choreography, and technique. As graduates they will be seeking multilayered careers as dance professionals including careers as arts administrators, dance teachers in community settings, sole proprietors who manage dance studios and provide instruction, or as independent artists. This program will prepare Dance BFA majors for diverse professional administrative, teaching, performance and choreography employment.

Dance Theory and Practice: All BFA students must be enrolled in a minimum of one technique class a day each semester. Competency based assessment will be used to determine the synthesis of knowledge, physical and performance abilities (technique) and level of proficiency. The application and synthesis of practice and theory competencies are required for employment in the dance field. The rigor of the assessments developed by dance technique faculty allows the department to meet NASD standards in Performance. Students accepted into the BFA degree in Dance program at Slippery Rock University must demonstrate technical proficiency requirements as indicated below:

All BFA-Business students must reach at least a minimum of Level IV in Ballet or Jazz, and Level VI in Modern Dance.

Demonstrated achievement of technical proficiency in dance technique courses will be determined by performance-based assessment of candidates for the BFA Degree in Dance from Slippery Rock University by dance technique faculty.

Dance Core Requirements - Credits: 52

- DANC 100 - Dance: Art and Culture Credits: 3
- DANC 101 - Wellness for Dancers Credits: 3
- DANC 199 - LMA/Performance Techniques Credits: 2
- DANC 200 - Dance Composition I Credits: 3
- DANC 216 - Principles of Dance Production Credits: 3
- DANC 223 - Creative Dance for Children Credits: 2
- DANC 224 - Improvisation Credits: 2
- DANC 298 - Selected Topic Credits: 1 to 3
Selected Topic: World Dance Forms Credits: 2
- DANC 300 - Dance Composition II Credits: 3
- DANC 323 - Teaching of Dance Credits: 3
- DANC 324 - Music for Dance Credits: 3
- DANC 326 - Dance Kinesiology Credits: 3
- DANC 350 - Field Experience in Dance Technique Credits: 1
- DANC 419 - Dance in Contemporary Times Credits: 3
- DANC 420 - Modern Dance Technique: Level IV Credits: 2
- DANC 421 - Ballet IV Credits: 2

OR

- DANC 422 - Jazz IV Credits: 2
- DANC 424 - Contemporary Partnering Credits: 2
- DANC 425 - Senior Capstone I: Dance Research Credits: 3
- DANC 426 - Modern Dance Technique: Level V Credits: 2
- DANC 428 - Modern Dance Technique: Level VI Credits: 2
- DANC 450 - Dance Internship Credits: 1 to 9

OR

- DANC 490 - Independent Study Credits: 1 to 3

OR

- DANC 495 - Workshop Credits: 1 to 3

Performance and Choreography Electives - Credits: 7

The following courses are repeatable

- DANC 299 - Dance Rehearsal & Production Credits: 1
- DANC 399 - Repertory Credits: 2
- DANC 430 - BFA Capstone II: Performance, Choreography, and Entrepreneurship Credits: 3
- DANC 499 - Dance Rehearsal & Production Credits: 1

Dance Technology, Wellness, Social and Historical Electives - Credits: 6

Choose two of the following: once must be DANC 305 or DANC 318

- DANC 271 - Dance Technology Credits: 3
- DANC 305 - Society and Social Dance Credits: 3
- DANC 318 - Dance in the Political World Credits: 3
- DANC 390 - Experimental Credits: 1 to 3 Credits: 3

Business Administration Specialization - Credits: 15

- ACCT 209 - Financial Accounting Credits: 3
- MRKT 330 - Principles of Marketing Credits: 3
- MGMT 351 - Organizational Behavior Credits: 3
- MGMT 354 - Human Resources Management Credits: 3

Choose 1 of the following 3 courses - Credits: 3

- BUSA 370 - Sustainable Entrepreneurship and Innovation Credits: 3
- MGMT 341 - Organizational Leadership Credits: 3
- MRKT 338 - E-Commerce Credits: 3

Dance (BFA) - w/Performance and Choreography Specialization

The BFA will provide excellent dance education and advanced training, performance, and choreography, along with elective areas of focus in production and dance technology. This innovative professional program will prepare dance

majors at SRU for diverse professional performance and choreography opportunities in entertainment and concert dance, private studio and business ownership, and administrative careers in the field.

Dance (BFA) - Credits: 60

The BFA program targets a diverse population interested in a traditional four year program that has the feeling of a conservatoire with a strong business orientation within a liberal arts setting. Aside from the business courses, Dance BFA students will have to take more advanced courses in performance, choreography, and technique. As graduates they will be seeking multilayered careers as dance professionals including careers as arts administrators, dance teachers in community settings, sole proprietors who manage dance studios and provide instruction, or as independent artists. This program will better prepare Dance BFA majors for administrative careers in the field, private business ownership and for more diverse professional performance and choreography jobs in entertainment and concert dance.

Dance Theory and Practice: All BFA students must be enrolled in a minimum of one technique class a day each semester. Competency based assessment will be used to determine the synthesis of knowledge, physical and performance abilities (technique) and level of proficiency. The application and synthesis of practice and theory competencies are required for employment in the dance field. The rigor of the assessments developed by dance technique faculty allows the department to meet NASD standards in Performance. Students accepted into the BFA degree in Dance program at Slippery Rock University must demonstrate technical proficiency requirements as indicated below:

All BFA-Performance and Choreography students must reach at least a minimum of Level IV in Jazz and Ballet and Level VI in Modern Dance.

Demonstrated achievement of technical proficiency in dance technique courses will be determined by performance-based assessment of candidates for the BFA Degree in Dance from Slippery Rock University by dance technique faculty.

Dance Core Requirements - Credits: 54

- DANC 100 - Dance: Art and Culture Credits: 3
- DANC 101 - Wellness for Dancers Credits: 3
- DANC 199 - LMA/Performance Techniques Credits: 2
- DANC 200 - Dance Composition I Credits: 3
- DANC 216 - Principles of Dance Production Credits: 3
- DANC 223 - Creative Dance for Children Credits: 2
- DANC 224 - Improvisation Credits: 2
- DANC 298 - Selected Topic Credits: 1 to 3
Selected Topic: World Dance Forms Credits: 2
- DANC 300 - Dance Composition II Credits: 3
- DANC 323 - Teaching of Dance Credits: 3
- DANC 324 - Music for Dance Credits: 3
- DANC 326 - Dance Kinesiology Credits: 3
- DANC 350 - Field Experience in Dance Technique Credits: 1
- DANC 419 - Dance in Contemporary Times Credits: 3
- DANC 420 - Modern Dance Technique: Level IV Credits: 2
- DANC 421 - Ballet IV Credits: 2
- DANC 422 - Jazz IV Credits: 2
- DANC 424 - Contemporary Partnering Credits: 2
- DANC 425 - Senior Capstone I: Dance Research Credits: 3

- DANC 426 - Modern Dance Technique: Level V Credits: 2
- DANC 428 - Modern Dance Technique: Level VI Credits: 2
- DANC 450 - Dance Internship Credits: 1 to 9
OR
- DANC 490 - Independent Study Credits: 1 to 3
OR
- DANC 495 - Workshop Credits: 1 to 3

Digital Technology, Wellness, Social and Historical Electives - Credits: 6

Choose two of the following: one must be DANC 305 or DANC 318

- DANC 271 - Dance Technology Credits: 3
- DANC 305 - Society and Social Dance Credits: 3
- DANC 318 - Dance in the Political World Credits: 3
- DANC 390 - Experimental Credits: 1 to 3
OR
- DANC 495 - Workshop Credits: 1 to 3

Performance and Choreography Specialization - Credits: 17

Choose 17 credits from the following: One must be DANC 430

DANC 220-428 Modern II - VI (Repeatable up to 6 credits per course)

DANC 221-421 Ballet II - IV (Repeatable up to 6 credits per course)

DANC 222-422 Jazz II-IV (Repeatable up to 6 credits per course)

DANC 271, 305 or 318 Dance Technology, Society and Social Dance or Dance History I

DANC 299, 499 Rehearsal and Performance (Repeatable up to 3 credits per course)

DANC 399 Repertory (Repeatable up to 6 credits per course)

DANC 430 BFA Capstone II: Chor, Perf, Entrep

Minor in Dance: Pedagogy

Dance Department

Requirements for the Minor - Credits: 26-27

2.7 GPA is required in dance minor courses.

All Dance minors are required to demonstrate proficiency at Level II of the following 3 techniques: Modern Dance, Ballet and Jazz. Dance minors are encouraged to continue their study of dance by taking Level III - VI technique courses. Level I technique classes may be required of some Dance Minors which can be counted for SRU Liberal Studies requirement.

ALL DANCE MINORS MUST TAKE DANCE KINESIOLOGY (DANC 326) or ANOTHER APPROVED 300 LEVEL BIOMECHANICS/ANATOMY COURSE AS A PREREQUISITE PRIOR TO ENROLLING IN TEACHING OF DANCE (DANC 323).

Core Requirements - Credits: 22

Level I technique classes in Modern Dance, Ballet and Jazz may be required of some Dance Minors and can be included in the SRU Liberal Studies requirement, Arts enrichment block.

- DANC 100 - Dance: Art and Culture Credits: 3
- DANC 101 - Wellness for Dancers Credits: 3
- DANC 200 - Dance Composition I Credits: 3
- DANC 223 - Creative Dance for Children Credits: 2
- DANC 224 - Improvisation Credits: 2
- DANC 305 - Society and Social Dance Credits: 3
- DANC 323 - Teaching of Dance Credits: 3
CONCURRENT WITH
- DANC 350 - Field Experience in Dance Technique Credits: 1

Select from the following technique course electives - Credits: 4-5

- DANC 125 - Experiencing Dance: Techniques and Styles Credits: 3
- DANC 220 - Modern Dance Technique: Level II Credits: 2
- DANC 221 - Ballet II Credits: 2
- DANC 222 - Jazz Dance II Credits: 2
- DANC 298 - Selected Topic Credits: 1 to 3
- DANC 320 - Modern Dance Technique: Level III Credits: 2
- DANC 321 - Ballet III Credits: 2
- DANC 322 - Jazz III Credits: 2

Minor in Dance: Performance

Requirements for the Minor - Credits: 21-22

Core Requirements - Credits: 12

- DANC 100 - Dance: Art and Culture Credits: 3
- DANC 101 - Wellness for Dancers Credits: 3
- DANC 224 - Improvisation Credits: 2
- DANC 305 - Society and Social Dance Credits: 3

Select from the following technique course electives - Credits: 9-10

- DANC 125 - Experiencing Dance: Techniques and Styles Credits: 3
- DANC 220 - Modern Dance Technique: Level II Credits: 2
- DANC 221 - Ballet II Credits: 2
- DANC 222 - Jazz Dance II Credits: 2
- DANC 298 - Selected Topic Credits: 1 to 3
- DANC 320 - Modern Dance Technique: Level III Credits: 2
- DANC 321 - Ballet III Credits: 2
- DANC 322 - Jazz III Credits: 2
- DANC 399 - Repertory Credits: 2
- DANC 422 - Jazz IV Credits: 2

English

English

Office: 316 Spotts World Culture Building

Phone: 724-738-2043

Email: sruenglish@sru.edu

Chair

Danette DiMarco

Assistant Chair

Mark O'Connor

Department Secretary

Catherine Saylor

Faculty

Nancy Barta-Smith, William Covey, Jr., Danette DiMarco, Rochelle Hurt, Christopher Kreiser, I.T. Meztli, Mark O'Connor, Timothy Oldakowski, Sunita Peacock, Rachela Permenter, Derrick Pitard, Erica Scott, James Strickland, Jason Stuart, John Sylvestro, Frederick White

Within the liberal arts tradition, English courses integrate the studies of literature, language, and writing from ancient through contemporary authors. Courses in literature, film, linguistics, creative, and professional writing develop skills useful in law, public relations, government, business, publishing, teaching, and advertising. Students study textual analysis and interpretation, literary theory, ethics, linguistic development and multicultural literatures.

Certificate in Creative Writing and Book Arts

Creative writing encompasses a wide range of expressive writing, and when combined with book arts, offers students the opportunity to explore issues about the evolving nature of printed books and writing in the digital age. Book arts, specifically artist books (which give equal weight to text, image, and the physical construction of the book) are located on the intersection of text and image, a crucial point in the discussion of visual and digital cultures.

Students will take a creative writing workshop and study the history, scholarship, and practices of traditional and contemporary artist books, culminating in a capstone class where students construct an artist book containing their own writing. Students will gain direct, hands-on experience in book production – the editing, book design, construction, and publication of their own writing.

Requirements for the Certificate - Credits: 12

Required Courses - Credits: 6

- ENGL 225 - Introduction to Creative Writing Credits: 3
- ENGL 330 - Literary Publications & Design Credits: 3

Electives - Credits: 6

Upper level studio art courses (ART 205, 207, 208, 211, 213, 305-311) may be substituted at the discretion of the English Department Chairperson.

- ART 105 - Basic Studio Drawing Credits: 3
- ART 107 - Basic Studio Photography Credits: 3
- ART 108 - Basic Studio Printmaking Credits: 3
- ENGL 298 - Selected Topics Credits: 3
- GES 205 - Cultural Geography Credits: 3
- GES 331 - Economic Geography Credits: 3
- HIST 205 - The Historian's Craft Credits: 3
- GNDR 115 - Introduction to Gender Studies Credits: 3

English Literature (BA): Language and Literature

Students pursuing a B.S. in Secondary Education must take the following courses within the Language and Literature track to fulfill NCATE and PDE requirements. These courses include: ENGL 204, 305, 307, and 328. Secondary Education majors should work closely with their academic advisers.

Students pursuing a B.A. in English: Language and Literature without the B.S. in Secondary Education may take approved electives. Choose from the following: ENGL248, 298, 311, 410 or any course listed below that has not already been taken. Approval by academic adviser and department chair is required.

Major required credits - Credits: 39

Required Courses - Credits: 24

- ENGL 204 - Composition and Rhetoric Credits: 3
OR
- ENGL 220 - Introduction to Literary and Cultural Studies Credits: 3
- ENGL 312 - Introduction to Shakespeare Credits: 3
OR

- ENGL 389 - Stratford Shakespeare Tour Credits: 3
- ENGL 402 - World Literature Credits: 3
- ENGL 317 - British Literature I Credits: 3
- ENGL 318 - British Literature II Credits: 3
- ENGL 319 - American Literature I Credits: 3
- ENGL 320 - American Literature II Credits: 3
- ENGL 403 - Literary and Cultural Theory Credits: 3

Required English Courses - Credits: 6

Choose two of the following:

- ENGL 230 - Introduction to Linguistics and Grammar Credits: 3
- ENGL 311 - Chaucer and Medieval Culture Credits: 3
- ENGL 331 - Historical Development of the English Language Credits: 3
- ENGL 332 - Modern English Grammar and Syntax Credits: 3

Required English Literature Course - Credits: 3

Choose one of the following:

- ENGL 242 - African-American Literature Credits: 3
- ENGL 243 - Literature of the Women's Movement Credits: 3
- ENGL 244 - Native American Literature Credits: 3
- ENGL 246 - U.S. Latino / a Literatures Credits: 3

Required Additional English Courses - Credits: 6

Students may select any two English courses other than ENGL 102, 104, 220

English Literature (BA): Literary, Film, and Cultural Studies

English Department

Students pursuing a B.A. in Literature: Literary, Film and Cultural Studies will study the interactions between cultures and literary texts. Writing, linguistics, and oral interpretation of literature are also required. Students take a minimum of 39 credits in English, exclusive of the first-year composition course.

Requirements for the English Literature-Literary, Film and Cultural Studies Major - Credits: 39

Required Courses - Credits: 21

- ENGL 214 - Introduction to Film Analysis Credits: 3
- ENGL 220 - Introduction to Literary and Cultural Studies Credits: 3
- ENGL 298 - Selected Topics Credits: 3
- ENGL 230 - Introduction to Linguistics and Grammar Credits: 3
OR
- ENGL 311 - Chaucer and Medieval Culture Credits: 3
OR
- ENGL 331 - Historical Development of the English Language Credits: 3
OR
- ENGL 332 - Modern English Grammar and Syntax Credits: 3
- ENGL 402 - World Literature Credits: 3
- ENGL 403 - Literary and Cultural Theory Credits: 3
- ENGL 409 - Advanced Research Writing Credits: 3

British Literature - Credits: 3

Choose one of the following:

- ENGL 311 - Chaucer and Medieval Culture Credits: 3
- ENGL 312 - Introduction to Shakespeare Credits: 3
OR
- ENGL 389 - Stratford Shakespeare Tour Credits: 3
- ENGL 317 - British Literature I Credits: 3
- ENGL 318 - British Literature II Credits: 3

American Literature - Credits: 6

Choose two of the following:

- ENGL 242 - African-American Literature Credits: 3
- ENGL 244 - Native American Literature Credits: 3
- ENGL 246 - U.S. Latino / a Literatures Credits: 3
- ENGL 319 - American Literature I Credits: 3
- ENGL 320 - American Literature II Credits: 3

Film Studies - Credits: 3

Choose one of the following:

- ENGL 307 - Writing About Electronic Media and Film Credits: 3
- ENGL 314 - European Film Credits: 3
- ENGL 315 - The Cinematic Review: Historical and Critical Writing Credits: 3
- ENGL 316 - Asian Film Credits: 3

Approved Electives - Credits: 6

Choose two of the following, or a course listed above that you have not already taken, or another English course approved by your adviser and the department chair:

- ENGL 243 - Literature of the Women's Movement Credits: 3
- ENGL 248 - Asian Literature Credits: 3
- ENGL 298 - Selected Topics Credits: 3
- ENGL 328 - Young Adult Literature Credits: 3
- ENGL 410 - Literature of the Environment Credits: 3
- ENGL 480 - Literature Seminar Credits: 3

English Writing (BS) - Creative

English Department

Students pursuing a B.S. in English - Creative Writing must also complete 15 hours or more outside the English Department in a sequence from one department, or of a minor or major, in a subject other than English. The selection of outside courses must be approved by the student's English adviser and by the Chair of the English Department.

Requirements for English Writing - Creative - Credits: 45

Writing Workshops - Required English Courses - Credits: 27

- ENGL 205 - Introduction to Professional Writing Credits: 3
- ENGL 225 - Introduction to Creative Writing Credits: 3
- ENGL 309 - Advanced Professional Writing Credits: 3
- ENGL 330 - Literary Publications & Design Credits: 3
- ENGL 338 - Creative Writing: Creative Nonfiction Credits: 3 to 6
- ENGL 339 - Creative Writing: Fiction Credits: 3
- ENGL 340 - Creative Writing: Poetry Credits: 3
- ENGL 346 - Writing the Graphic Novel Credits: 3
- ENGL 429 - Grant and Proposal Writing Credits: 3

Writing and Theory - Choose Two Courses from the Following - Credits: 6

- ENGL 204 - Composition and Rhetoric Credits: 3
- ENGL 220 - Introduction to Literary and Cultural Studies Credits: 3
- ENGL 230 - Introduction to Linguistics and Grammar Credits: 3
- ENGL 307 - Writing About Electronic Media and Film Credits: 3
- ENGL 327 - Healthcare Writing Credits: 3
- ENGL 331 - Historical Development of the English Language Credits: 3
- ENGL 332 - Modern English Grammar and Syntax Credits: 3
- ENGL 349 - Creative Writing: Screenplay Credits: 3
- ENGL 403 - Literary and Cultural Theory Credits: 3

Literature Courses - Choose two courses from the following - Credits: 6

(ENGL 298 may be taken twice as different topics)

- ENGL 242 - African-American Literature Credits: 3
 - ENGL 243 - Literature of the Women's Movement Credits: 3
 - ENGL 244 - Native American Literature Credits: 3
 - ENGL 246 - U.S. Latino / a Literatures Credits: 3
 - ENGL 248 - Asian Literature Credits: 3
 - ENGL 298 - Selected Topics Credits: 3
 - ENGL 311 - Chaucer and Medieval Culture Credits: 3
 - ENGL 312 - Introduction to Shakespeare Credits: 3
- OR
- ENGL 389 - Stratford Shakespeare Tour Credits: 3
 - ENGL 317 - British Literature I Credits: 3
 - ENGL 318 - British Literature II Credits: 3
 - ENGL 319 - American Literature I Credits: 3
 - ENGL 320 - American Literature II Credits: 3
 - ENGL 402 - World Literature Credits: 3

Capstone Experience - Part I - Credits: 3

- ENGL 409 - Advanced Research Writing Credits: 3

Capstone Experience - Part II - Credits: 3

If below a 3.0 Overall GPA - choose one additional literature course from the Required Literature Courses listing above

or

If at a 3.0 (or above) Overall GPA-choose *either* one additional literature course from the Required Literature Courses listing above or ENGL 491 Senior Writing Project.

- ENGL 491 - Senior Writing Project Credits: 1 to 3 (3 Credits)

Other Credits - Credits: 15

15 credits are required from outside the English department from one department or a minor or certificate or a major in a subject other than English (15 credits)--Refer to My Rock Audit.

English Writing (BS) - Professional

English Department

Students pursuing the B.S. English - Professional Writing must also complete 15 hours or more outside the English Department in a sequence from one department, or certificate (including multi-disciplinary minors or certificates), a minor or major, in a subject other than English. The selection of courses, certificate, minor, or major must be approved by the student's English adviser and by the Chairperson of the English Department.

Requirements for the English Writing - Professional Major - Credits: 45

Required Concentration Courses - Credits: 24

- ENGL 204 - Composition and Rhetoric Credits: 3
- ENGL 205 - Introduction to Professional Writing Credits: 3
- ENGL 225 - Introduction to Creative Writing Credits: 3
- ENGL 306 - Technical and Scientific Writing Credits: 3
- ENGL 309 - Advanced Professional Writing Credits: 3
- ENGL 327 - Healthcare Writing Credits: 3
- ENGL 330 - Literary Publications & Design Credits: 3
- ENGL 365 - Writing for the World Wide Web Credits: 3

Required Internship - Credits: 6

- ENGL 450 - Internship Credits: 1 to 12 CREDITS: 6

Language and Literature Courses

Required - Credits: 3

- ENGL 403 - Literary and Cultural Theory Credits: 3

Required - Credits: 6

Choose 6 credits from the following:

- ENGL 312 - Introduction to Shakespeare Credits: 3
- OR
- ENGL 389 - Stratford Shakespeare Tour Credits: 3
- ENGL 242 - African-American Literature Credits: 3
- ENGL 243 - Literature of the Women's Movement Credits: 3
- ENGL 244 - Native American Literature Credits: 3
- ENGL 246 - U.S. Latino / a Literatures Credits: 3
- ENGL 248 - Asian Literature Credits: 3
- ENGL 298 - Selected Topics Credits: 3
- ENGL 311 - Chaucer and Medieval Culture Credits: 3
- ENGL 317 - British Literature I Credits: 3
- ENGL 318 - British Literature II Credits: 3
- ENGL 319 - American Literature I Credits: 3
- ENGL 320 - American Literature II Credits: 3
- ENGL 402 - World Literature Credits: 3

Required - Credits: 3

Choose 3 credits from the following:

- ENGL 230 - Introduction to Linguistics and Grammar Credits: 3
- ENGL 331 - Historical Development of the English Language Credits: 3
- ENGL 332 - Modern English Grammar and Syntax Credits: 3

Capstone Experience - Credits: 3

Advanced Research Writing (ENGL 409) should be regarded as the program's capstone course, in which students will write a major research project.

Students must submit a portfolio of work produced in the program to qualify for graduation.

- ENGL 409 - Advanced Research Writing Credits: 3

Other Required Coursework - Credits: 15

The selection of courses, certificate, minor, or major must be approved by the student's English adviser and by the Chair of the English Department. Students may choose:

- A sequence in one other department
- A minor or certificate (including multi-disciplinary minors or certificates)
- A major in a subject other than English

Minor in Film and Media Studies

English Department

Film and Media Studies Minor - Credits: 18

Required Courses - Credits: 9

- ENGL 214 - Introduction to Film Analysis Credits: 3
- ENGL 307 - Writing About Electronic Media and Film Credits: 3
- ENGL 315 - The Cinematic Review: Historical and Critical Writing Credits: 3

Minor Electives - Credits: 9

Choose three courses from the following (at least one course must be at the 300 level or higher):

- ART 214 - Intermediate Studio Digital Media Credits: 3
- ART 300 - Art Seminar Credits: 3 Film and Media Topic
- ART 314 - Advanced Studio Digital Media Credits: 3
- ART 315 - Master Studio Credits: 1 Film and Media Topic
- ART 414 - Senior Studio Digital Media Credits: 3

- COMM 201 - Digital Imaging 1 Credits: 3
- COMM 254 - Video Production Credits: 3
- COMM 248 - Interactive Multimedia 1 Credits: 3
- COMM 258 - Interactive Multimedia 2 Credits: 3
- COMM 347 - New-Media Journalism Credits: 3
- COMM 350 - Editing for Video Credits: 3
- COMM 355 - TV Field Production Credits: 3
- COMM 359 - Interactive Multimedia 3 Credits: 3
- COMM 263 - Mass Media and Society Credits: 3
- COMM 458 - Media Criticism Credits: 3
- ENGL 314 - European Film Credits: 3
- ENGL 316 - Asian Film Credits: 3
- ENGL 349 - Creative Writing: Screenplay Credits: 3
- ENGL 498 - Selected Topics Credits: 1 to 3
Selected Topic: Film or Media Topic Credits: 3
- HIST 498 - Selected Topics Credits: 1 to 3
Selected Topic: The Cold War and Film Credits: 3
- INDP 310 - Cultural Area Studies Credits: 3
Cultural Area Studies: Samurai Culture Through Film
- POLS 333 - The Political Film Credits: 3
- RUSS 305 - Russian Civilization via Film Credits: 3
- SPAN 307 - U.S. Latino Cultures Credits: 3
- Pittsburgh Filmmakers Production or Analysis course (with English Department Chair approval) Credits: 3

Minor in Literature

English Department

Literature Minor - Credits: 21

If you want to earn both a Major and a Minor in English, there are occasions where some overlap may occur.

Required Courses - Credits: 12

- ENGL 220 - Introduction to Literary and Cultural Studies Credits: 3
- ENGL 312 - Introduction to Shakespeare Credits: 3
OR
- ENGL 389 - Stratford Shakespeare Tour Credits: 3
- ENGL 317 - British Literature I Credits: 3
OR
- ENGL 318 - British Literature II Credits: 3
- ENGL 319 - American Literature I Credits: 3
OR
- ENGL 320 - American Literature II Credits: 3

Required Course - Credits: 3

Choose one course from the following:

- ENGL 242 - African-American Literature Credits: 3
- ENGL 243 - Literature of the Women's Movement Credits: 3
- ENGL 244 - Native American Literature Credits: 3
- ENGL 246 - U.S. Latino / a Literatures Credits: 3
- ENGL 248 - Asian Literature Credits: 3
- ENGL 402 - World Literature Credits: 3
- ENGL 314 - European Film Credits: 3
- ENGL 316 - Asian Film Credits: 3
- ENGL 298 - Selected Topics Credits: 3
- ENGL 403 - Literary and Cultural Theory Credits: 3
- ENGL 480 - Literature Seminar Credits: 3

English Electives - Credits: 6

Choose two additional English courses - not from ENGL 102, 104, 220.

Minor in Writing

English Department

Writing Minor - Credits: 21

If you want to earn both a Major and a Minor in English, there are occasions where some overlap may occur.

Required Courses - Credits: 12

Choose four courses from the following:

- ENGL 204 - Composition and Rhetoric Credits: 3
- ENGL 205 - Introduction to Professional Writing Credits: 3
- ENGL 225 - Introduction to Creative Writing Credits: 3
- ENGL 305 - Practicum: Teaching Writing Credits: 3
- ENGL 306 - Technical and Scientific Writing Credits: 3
- ENGL 309 - Advanced Professional Writing Credits: 3
- ENGL 327 - Healthcare Writing Credits: 3
- ENGL 338 - Creative Writing: Creative Nonfiction Credits: 3 to 6 CREDITS: 3
- ENGL 339 - Creative Writing: Fiction Credits: 3
- ENGL 340 - Creative Writing: Poetry Credits: 3

Required Course - Credits: 3

Choose one course from the following:

- ENGL 230 - Introduction to Linguistics and Grammar Credits: 3
- ENGL 331 - Historical Development of the English Language Credits: 3

- ENGL 332 - Modern English Grammar and Syntax Credits: 3

English Electives - Credits: 6

Choose two additional English courses - not from ENGL 102 or 104

- ENGL 450 - Internship Credits: 1 to 12
max credits for this requirement is 6

Gender Studies

249C Smith Student Center
724-738-2359

Gender Studies

Gender Studies considers how gender, along with race, class, sexualities, disability and ethnicity, shape access to and exclusion from power in an interdisciplinary context.

Director

Cindy LaCom (Director)

The Gender Studies Program takes an interdisciplinary approach to teaching and learning, with courses in numerous departments: English, EGEO, Psychology, History, and Political Science, among others. Relevant to all majors, a minor in Gender Studies prepares students both to interact in a diverse and increasingly global professional world and to understand how our embodied experiences, while personal and individual, are also culturally shaped. In Gender Studies courses, students analyze power structures, gender identities, and culture to promote social change.

Minor in Gender Studies

Gender Studies

The Gender Studies Program takes an interdisciplinary approach to teaching and learning, with courses in numerous departments: English, EGEO, Psychology, History, and Political Science, among others. Relevant to all majors, a minor in Gender Studies prepares students both to interact in a diverse and increasingly global professional world and to understand how our embodied experiences, while personal and individual, are also culturally shaped. In Gender Studies courses, students analyze power structures, gender identities, and culture to promote social change.

Program Requirements - Credits: 18

Currently, a student may earn a minor in Gender Studies by taking eighteen credits, which must include Intro GENDR (WMST 115) and five additional courses, of which six credits must be taken at the 300 or 400 level, and achieving a GPA of 2.0 or better.

In addition, student may earn a Document of Academic Achievement in Gender Studies by earning twelve credits from the following courses with a minimum GPA of 2.0:

- EGEO 368 - Women in Science Credits: 3
- ENGL 104 - Critical Reading Credits: 3
(designated sections)
- ENGL 243 - Literature of the Women's Movement Credits: 3
- GERO 425 - Women and Aging Credits: 3
- GES 105 - World Regional Geography Credits: 3
- GES 361 - Gender & the Environment Credits: 3
- HIST 313 - U.S. Manhood and Masculinities Credits: 3
- HIST 318 - Gender and Sexuality in European Society Credits: 3
- HIST 319 - History of Women to 1750 Credits: 3
- HLTH 211 - Women's Health Issues Credits: 3
- MUSI 301 - Women and Music Credits: 3
- POLS 349 - Utopian Experiments: Issues of Gender and Power Credits: 3
- POLS 375 - Women and Politics Credits: 3
- INDP 339 - Gender Roles and Society Credits: 3
- INDP 360 - Women in Asian Societies Credits: 3
- PSYC 300 - Psychology of Women, Gender and Culture Credits: 3
- PSYC 315 - Psychology of Sexual and Gender Diversity Credits: 3
- GNDR 415 - Feminist Perspectives in the Disciplines Credits: 3
- GNDR 450 - Internship Credits: 1 to 12
- GNDR 490 - Independent Study Credits:

Required Course

Required Course

- GNDR 115 - Introduction to Gender Studies Credits: 3

History

History

Office: 303 Spotts World Cultures Building

Phone: 724-738-2053

Email: SRUhistorydept@sru.edu

Chair

Lia Paradis

Secretary

Machelle Slagle

Faculty

William Bergman, Aaron Cowan, Margaret Denning, Melissa Ford, Alan Levy, Lia Paradis, Thomas Percy, Paula Rieder, Eric Tuten, Carlis White

The History Department of Slippery Rock University seeks to educate and mentor students to be future leaders in their endeavors and professions by disseminating a knowledge of the past through intensive instruction and research. The department is committed both to academic excellence and to the encouragement of creativity and innovation. We welcome and respect differences, because diversity is a key ingredient in quality education and general discourse. We seek to recruit students from all backgrounds and to foster a culture that instills a sense of responsibility for the broader community. We encourage open debate of ideas within an intellectual environment of mutual respect.

History is a discipline that supports the liberal arts concentrations in the humanities and the social and behavioral sciences. Its aim is to place men and women and their achievements in the proper perspective of western heritage and the heritage of other cultures. The concentration in history is designed to develop a knowledge of the past with special emphasis on an understanding of contemporary problems. The key to historical scholarship consists of the exercise of critical analysis in order to evaluate and discover the comparative significance of human beings and events.

History majors or social science majors with a concentration in history enter careers in business, government agencies and education or pursue graduate work in history, law, and other professional schools. Students regularly complete internships at the Old Stone House, local historical societies, colonial forts in Western Pennsylvania, and other historical sites in the United States. History students frequently take courses in foreign countries offered by SRU history faculty.

Certificate in Applied History

The job market in public history and historical tourism is growing rapidly. This is most easily seen in the emergence of specialized museums and living history centers, but also as a growing component of governmental services, including the national parks service and census bureau, local and state public space development and, most recently, through interactive web and app development. These occupations demand individuals who have an understanding of how to develop and apply historical knowledge and data in new and innovative ways. This certificate is specifically designed to provide students a foundation in the interaction between history and public consumption that will improve opportunities for employment.

Historical Competency

Students must demonstrate historical competency through successfully completing 6 credits prior to declaring the Letter of Completion in Applied History:

One of the following (3 cr):

HIST 151: Ancient and Medieval World

HIST 152: Rise of the Modern World

HIST 153: Contemporary World History

AND one of the following (3 cr):

HIST 201: Colonial America to 1815

HIST 202: United States, 1815-1920

HIST 203: U.S. History since 1920

or the equivalent as determined by the History Department

Required Courses - Credits: 12

Required Course - Credits: 3

- HIST 343 - Public History Credits: 3

Take one of the following - Credits: 3

- HIST 395 - Workshop Credits: 1 to 3 w/title of Western Pennsylvania Foodways
- HIST 411 - Digital History Credits: 3
- HIST 445 - Americans and the Environment Credits: 3
- HIST 450 - History Internship Credits: 1 to 12
max credits for this internship is
- HIST 495 - Workshop Credits: 1 to 3 w/title of Butler Historical Digital Project

Take two of the following - Credits: 6

- HIST 323 - African American History to 1876 Credits: 3
- HIST 324 - African American History Since 1876 Credits: 3
- HIST 337 - Native American History Credits: 3
- HIST 344 - The American City Credits: 3
- HIST 350 - The American Civil War Credits: 3
- HIST 371 - History of Jews Credits: 3
- HIST 437 - The American West Credits: 3
- HIST 445 - Americans and the Environment Credits: 3

History (BA)

History Department

Requirements for the Major - Credits: 42

Required Core Courses - Credits: 15

Two of the Following:

- HIST 151 - Ancient and Medieval World Credits: 3
- HIST 152 - Rise of the Modern World Credits: 3
- HIST 153 - Contemporary World History Credits: 3

Two of the Following:

- HIST 201 - Colonial America to 1815 Credits: 3
- HIST 202 - United States, 1815-1920 Credits: 3
- HIST 203 - U.S. History Since 1920 Credits: 3

Required Course - Credits: 3

- HIST 205 - The Historian's Craft Credits: 3

Required Elective Courses - Credits: 21

All students must complete: 6 credits in each of the US, Africa/Asia/Latin America/Middle East, and Europe Required Elective Areas, and 3 credits in the Applied History Required Elective Area.

United States - Credits: 6

Choose 6 credits from the following:

- HIST 304 - American Military History Credits: 3
- HIST 313 - U.S. Manhood and Masculinities Credits: 3
- HIST 323 - African American History to 1876 Credits: 3
- HIST 324 - African American History Since 1876 Credits: 3
- HIST 326 - The Long Civil Rights Movement Credits: 3
- HIST 335 - Outstanding Americans Credits: 3
- HIST 336 - American Economic History Credits: 3
- HIST 337 - Native American History Credits: 3
- HIST 344 - The American City Credits: 3
- HIST 350 - The American Civil War Credits: 3
- HIST 353 - History of the Americas Credits: 3 **
- HIST 358 - American Popular Culture, 1865 to the Present Credits: 3
- HIST 364 - History of Medicine Credits: 3
- HIST 390 - Experimental Credits: 1 to 3 CREDITS: 3
- HIST 435 - Pennsylvania Credits: 3
- HIST 437 - The American West Credits: 3
- HIST 445 - Americans and the Environment Credits: 3

- HIST 453 - American Constitutional History and Law Credits: 3
- HIST 490 - Independent Study Credits: 1 to 3 CREDITS: 3
- HIST 498 - Selected Topics Credits: 1 to 3 CREDITS: 3

Africa, Asia, Latin America and Middle East - Credits: 6

Choose 6 credits from the following:

- HIST 351 - Latin America to 1830 Credits: 3
- HIST 352 - Latin America Since 1830 Credits: 3
- HIST 353 - History of the Americas Credits: 3 **
- HIST 362 - Africa North of the Zambezi Credits: 3
- HIST 363 - Southern Africa Credits: 3
- HIST 364 - History of Medicine Credits: 3
- HIST 370 - History and the Bible Credits: 3
- HIST 371 - History of Jews Credits: 3
- HIST 376 - Modern Japan Credits: 3
- HIST 380 - Egyptology Credits: 3
- HIST 381 - East Asian Military Traditions Credits: 3
- HIST 382 - Modern Asian Pacific Rim Credits: 3
- HIST 386 - Modern China Credits: 3
- HIST 390 - Experimental Credits: 1 to 3 CREDITS: 3
- HIST 406 - Mass Killing and Genocide in the Modern World Credits: 3
- HIST 462 - The Contemporary Middle East Credits: 3
- HIST 463 - Israel - History, State, and Society Credits: 3
- HIST 490 - Independent Study Credits: 1 to 3 CREDITS: 3
- HIST 498 - Selected Topics Credits: 1 to 3 CREDITS: 3

Europe - Credits: 6

Choose 6 credits from the following:

- HIST 305 - Russia to 1855 Credits: 3
- HIST 306 - Russia Since 1855 Credits: 3
- HIST 318 - Gender and Sexuality in European Society Credits: 3
- HIST 319 - History of Women to 1750 Credits: 3
- HIST 331 - England to 1689 Credits: 3
- HIST 332 - Britain Since 1689 Credits: 3
- HIST 333 - Medieval Church Credits: 3
- HIST 346 - Rise of Imperial Britain Credits: 3
- HIST 347 - Twentieth Century British Culture Credits: 3
- HIST 364 - History of Medicine Credits: 3
- HIST 390 - Experimental Credits: 1 to 3 CREDITS: 3
- HIST 404 - Violence in Post-45 Europe Credits: 3
- HIST 422 - Ancient Greece Credits: 3
- HIST 423 - Ancient Rome Credits: 3
- HIST 424 - The Middle Ages Credits: 3
- HIST 426 - French Revolution and Napoleon Credits: 3

- HIST 427 - Nineteenth Century Europe Credits: 3
- HIST 464 - The Scientific Revolution of the 17th and 18th Centuries Credits: 3
- HIST 490 - Independent Study Credits: 1 to 3 CREDITS: 3
- HIST 498 - Selected Topics Credits: 1 to 3 CREDITS: 3

Applied History - Credits: 3

Choose 3 credits from the following:

- HIST 343 - Public History Credits: 3
- HIST 395 - Workshop Credits: 1 to 3 w/ title of Western Pennsylvania Foodways
- HIST 411 - Digital History Credits: 3
- HIST 450 - History Internship Credits: 1 to 12 CREDITS: 3
- HIST 454 - Research and Writing Seminar Credits: 3
- HIST 490 - Independent Study Credits: 1 to 3
- HIST 495 - Workshop Credits: 1 to 3 w/ title of Butler Historical Digital Project

**

** Indicates the course can count for only one (1) distributional area

Free Electives - Credits: 6

All History majors must complete 6 additional upper division (300/400) division History credits.

Minor in American History

History Department

Requirements for the Minor - Credits: 18

American History:

6 Credits from the Following

- HIST 201 - Colonial America to 1815 Credits: 3
- HIST 202 - United States, 1815-1920 Credits: 3
- HIST 203 - U.S. History Since 1920 Credits: 3

9 Credits from the Following

- HIST 304 - American Military History Credits: 3
- HIST 313 - U.S. Manhood and Masculinities Credits: 3
- HIST 323 - African American History to 1876 Credits: 3
- HIST 324 - African American History Since 1876 Credits: 3
- HIST 326 - The Long Civil Rights Movement Credits: 3

- HIST 335 - Outstanding Americans Credits: 3
- HIST 336 - American Economic History Credits: 3
- HIST 337 - Native American History Credits: 3
- HIST 343 - Public History Credits: 3
- HIST 344 - The American City Credits: 3
- HIST 350 - The American Civil War Credits: 3
- HIST 351 - Latin America to 1830 Credits: 3
- HIST 352 - Latin America Since 1830 Credits: 3
- HIST 353 - History of the Americas Credits: 3
- HIST 358 - American Popular Culture, 1865 to the Present Credits: 3
- HIST 395 - Workshop Credits: 1 to 3 w/title of Western Pennsylvania Foodways
- HIST 435 - Pennsylvania Credits: 3
- HIST 437 - The American West Credits: 3
- HIST 445 - Americans and the Environment Credits: 3
- HIST 453 - American Constitutional History and Law Credits: 3
- HIST 454 - Research and Writing Seminar Credits: 3
- HIST 495 - Workshop Credits: 1 to 3 w/title Butler Historical Digital Project

History Elective - Credits: 3

Choose one additional History course not taken above. Please select from HIST 151 through HIST 498.

Minor in European History

History Department

Requirements for the Minor - Credits: 18

Choose two courses from the Following - Credits: 6

- HIST 151 - Ancient and Medieval World Credits: 3
- HIST 152 - Rise of the Modern World Credits: 3
- HIST 153 - Contemporary World History Credits: 3

Choose three courses from the Following - Credits: 9

- HIST 305 - Russia to 1855 Credits: 3
- HIST 306 - Russia Since 1855 Credits: 3
- HIST 318 - Gender and Sexuality in European Society Credits: 3
- HIST 319 - History of Women to 1750 Credits: 3
- HIST 331 - England to 1689 Credits: 3
- HIST 332 - Britain Since 1689 Credits: 3
- HIST 333 - Medieval Church Credits: 3
- HIST 346 - Rise of Imperial Britain Credits: 3
- HIST 347 - Twentieth Century British Culture Credits: 3
- HIST 364 - History of Medicine Credits: 3

- HIST 404 - Violence in Post-45 Europe Credits: 3
- HIST 422 - Ancient Greece Credits: 3
- HIST 423 - Ancient Rome Credits: 3
- HIST 424 - The Middle Ages Credits: 3
- HIST 426 - French Revolution and Napoleon Credits: 3
- HIST 427 - Nineteenth Century Europe Credits: 3
- HIST 454 - Research and Writing Seminar Credits: 3
- HIST 464 - The Scientific Revolution of the 17th and 18th Centuries Credits: 3
- HIST 498 - Selected Topics Credits: 1 to 3

History Elective (3 credits)

Select any History course from HIST 151 through HIST 498

Minor in General History

History Department

Requirements for the Minor - Credits: 18

- 9 Credits from 100 and 200 level history courses
- 9 Credits in history at the 300 level or above

Minor in Non-Western History

History Department

Requirements for the Minor - Credits: 18

Required History Courses - Credits: 6

- HIST 151 - Ancient and Medieval World Credits: 3
- HIST 153 - Contemporary World History Credits: 3

Choose from the Following - Credits: 9

- HIST 362 - Africa North of the Zambezi Credits: 3
- HIST 363 - Southern Africa Credits: 3
- HIST 364 - History of Medicine Credits: 3
- HIST 370 - History and the Bible Credits: 3
- HIST 371 - History of Jews Credits: 3
- HIST 376 - Modern Japan Credits: 3
- HIST 380 - Egyptology Credits: 3
- HIST 381 - East Asian Military Traditions Credits: 3
- HIST 382 - Modern Asian Pacific Rim Credits: 3

- HIST 386 - Modern China Credits: 3
- HIST 406 - Mass Killing and Genocide in the Modern World Credits: 3
- HIST 454 - Research and Writing Seminar Credits: 3
- HIST 462 - The Contemporary Middle East Credits: 3
- HIST 463 - Israel - History, State, and Society Credits: 3

History Elective - Credits: 3

Select from HIST 151 through HIST 498.

Homeland/Corporate Security Studies

Department of Homeland/Corporate Security Studies

215 Spotts World Culture Building

724-738-2005

Chair

Dr. Susan Lubinski

Secretary

Deborah Kosciuszko

Faculty

Jackie Deloplaine, Jonathan Henry, Devin Kerins, Bryan Leadbetter, Susan Lubinski, James Shearer, James Snyder, Angele Stoebener, Brian Wisneski,

Vision

Building ethical security professionals who will solve the complex security issues of tomorrow

Mission

Helping students build strong foundations to prevent, protect, minimize the effects of, and respond to complex security threats and provide for the successful recovery from those threats in both the public and private sectors.

The Homeland/Corporate Security Studies department supports this mission through a focus on:

Cultural Awareness

Interpersonal skills

Communication skills

Ethical decision making

Student engagement

Internships

Experiential learning

The Department of Homeland/Corporate Security Studies, as part of the College of Liberal Arts, exists to serve students interested in security careers and to equip them with the necessary knowledge and skills to become the security leaders of tomorrow. The Department of Homeland/Corporate Security Studies offers a Bachelor of Science in Homeland Security degree and a Bachelor of Science in Corporate Security (private security management) degree. The Bachelor of Science in Corporate Security has two concentrations: Fraud and Organizational Security. The Organizational Security concentration prepares students to protect people, property, information, and assets. This concentration provides a substantial amount of knowledge needed to take the various certifications offered by ASIS International. The Fraud concentration dives deeper into the protection of the economic assets-both tangible and intangible. The Fraud concentration provides a substantial amount of the knowledge needed to take the Certified Fraud Examiners certification offered by the Association of Certified Fraud Examiners.

The Homeland Security and Corporate Security majors prepare students for careers in both the private and public sector. The degrees also provide a foundation for students who want to pursue advanced degrees in the study of security.

In addition to the two majors, the department offers minors in the following: Fraud, Homeland Security, and Organizational Security. Three certificates are also offered: Fraud, Homeland Security, and Organizational Security.

For detailed course information see the Course Descriptions section of this catalog or the program of interest.

Certificate in Fraud

Fraud occurs within organizations when employees embezzle monies, engage in bribery or extortion, steal tangible or intangible assets or enter into transactions that create a conflict of interest. Fraud can also occur due to external threats such as corporate espionage, terrorism, and hacking. Fraud has recently emerged as a new academic discipline. As a result, many individuals have not been formally trained in the types of fraud, assessing an organization's risk for fraud, or preventing or detecting fraud early. This certificate is specifically designed to provide a foundation about the nature of fraud, the characteristics of a fraudster, the types of fraud, the basic principles of fraud prevention, detection, and investigation and how to assess an organization's fraud risk exposure.

There are a variety of professional certifications you may obtain upon graduation. We encourage you to research the requirements of these certifications as many of them require the passing of an exam and relevant work experience.

Certificate in Fraud - Credits: 12

Required Courses

- CSS 120 - Introduction to Private Security Credits: 3
- CSS 351 - Fraud Credits: 3

- CSS 354 - Risk Assessment and Fraud Credits: 3
- CSS 360 - Specialized Fraud Schemes Credits: 3

Certificate in Homeland Security

Since 9/11 and other man-made and natural disasters, the concept of homeland security is embedded in every aspect of federal, state, and local government. Most importantly the private sector also plays a key role in securing the homeland. This certificate will provide the overview of the scope of homeland security, the fundamentals of terrorism, risk analysis, and protecting infrastructure and key assets. All students would benefit from this certificate due to the threats all organizations face from man-made and natural disaster. Hotels entertainment/sporting venues, hospitals, etc. are not immune from being targets by terrorists and susceptible to other man-made and natural disasters. The key to homeland security in America is an "enterprise" of various stakeholders in society.

There are a variety of professional certifications you may obtain upon graduation. We encourage you to research the requirements of these certifications as many of them require the passing of an exam and relevant work experience.

Certificate in Homeland Security - Credits: 12

Required Courses

- HSS 120 - Introduction to Homeland Security Credits: 3
- HSS 210 - Fundamentals of Terrorism Credits: 3
- HSS 230 - Risk Analysis and Strategic Planning Credits: 3
- CSS 300 - Personnel Security Credits: 3

Certificate in Organizational Security

The emphasis on private security management greatly increased after 9/11 as evidenced by the \$400 billion spent annually on security. Due to both man-made disasters (terrorism, workplace violence/random shootings, internal and external theft, hacking, and the deliberate physical destruction of employer's property) and natural disasters (Hurricane Katrina, Sandy, fires, etc.) all organizations must take proactive steps to protect people, infrastructure and assets from harm. This certificate is specifically designed to provide the foundation for understanding the scope of the security function within organizations, the various security techniques needed to protect people, the physical infrastructure and assets, and how to effectively manage a security team.

There are a variety of professional certifications you may obtain upon graduation. We encourage you to research the requirements of these certifications as many of them require the passing of an exam and relevant work experience.

Certificate in Organizational Security - Credits: 12

Required Courses

- CSS 120 - Introduction to Private Security Credits: 3
- CSS 210 - Physical Security Credits: 3
- CSS 300 - Personnel Security Credits: 3
- CSS 351 - Fraud Credits: 3

Corporate Security (BS)

The Corporate Security program prepares you to provide the security an organization needs to protect its people, property, information and economic assets from man-made (crime, terrorism, workplace violence) and natural disasters (fires, floods, storms, etc.).

As a Corporate Security major you will take classes in a variety of disciplines needed to critically analyze an organization's security needs and find creative solutions to solve complex security issues.

The Corporate Security degree has two concentrations: Organizational Security and Fraud.

- **Organizational Security** concentration provides the knowledge and skills needed to protect people, property, informational assets
- **Fraud** concentration provides the knowledge and skills needed to secure economic assets, both tangible and intangible

Why Choose Corporate Security?

- High demand for entry-level professionals projected in next several decades by the American Society for Industrial Security International
- Corporate security has changed since 9/11 and corporate security specialists interact with homeland security specialists to ensure the continued flow of goods and services critical to our everyday lives
- The demand for fraud specialists continues to grow in both the private and public sector where government needs individuals who are qualified in conducting financial intelligence and trace and stop the flow of economic assets of terrorists

What Will You Learn?

In the Organizational Security concentration students will learn the fundamentals of identifying organizational security risk exposure, creating cost-effective solutions to minimize risk exposure, and provide continuity and recovery plans. You will learn how to analyze concepts of personnel security, physical and information security and design effective plans to prevent losses. Students will also learn how to analyze and prevent or minimize losses from man-made (crime, terrorism) and natural disasters. In addition, how to conduct proper investigations, write reports, and testifying will be taught. Students will also learn how to manage a security department, department budgets and personnel.

In the Fraud concentration students will learn how to uncover and prevent fraud from corporate espionage, identity theft, Ponzi schemes, asset misappropriations, corruption, healthcare and mortgage fraud and a host of other complex financial crimes. Students will learn how to design effective internal controls and devise programs and policies to detect fraud. In addition effective investigative techniques will be taught, and how to analyze and compile data for internal and external use will be emphasized. Students will also learn how to write effective reports, testify in court, and devise and implement remedial internal controls to prevent future frauds.

You will take classes across the critical disciplines needed to be successful within this field:

- Criminology
- Business
- Safety
- Communications
- English
- Philosophy

- Interdisciplinary Studies

Through internship opportunities, you will gain real world experience and develop contacts to help you become successful in this field.

Careers In Corporate Security

Graduates from SRU's Corporate Security program may enter into careers in a variety of fields with the following job titles:

- Security Specialists
- Chief Security Officer
- Security Consultant/Director
- Fraud Examiner
- Fraud Analyst
- Fraud Investigator
- Internal Auditor
- Special Agent/FBI Agent
- Director of Loss Prevention
- Bankruptcy Analyst
- Management Consultant
- Compliance Officer/Executive
- Legal Investigator
- US Postal Inspector
- Private investigator

PROFESSIONAL CERTIFICATIONS

There are a variety of professional certifications you may obtain upon graduation. The list below is not inclusive but includes the most popular certifications. We encourage you to research the requirements of these certifications as many of them require the passing of an exam and relevant work experience.

- Certified Fraud Examiner (ACFE)
- Certified Protection Professional (ASIS)
- Professional Certified Investigator (ASIS)
- Physical Security Professional (ASIS)

In addition, there a number of specialized security and security-related certifications offered by other organizations which are more industry sector related, here are a couple of examples:

- Certified Healthcare Protection Administrator (CHPA)
- Industrial Security Professional (ISP)

Corporate Security (BS) - Organizational Security Concentration - Credits: 60

Core Courses - Credits: 39

- ACCT 209 - Financial Accounting Credits: 3
- BUSA 340 - Legal Environment of Business I Credits: 3
- CSS 120 - Introduction to Private Security Credits: 3
- CSS 351 - Fraud Credits: 3
- CSS 352 - Law and Ethics in the Workplace Credits: 3
- CSS 354 - Risk Assessment and Fraud Credits: 3
- CSS 430 - Corporate Security Law Credits: 3
- CSS 440 - Corporate Security Investigation Credits: 3
- CSS 460 - Corporate Security Capstone Credits: 3

- ENGL 205 - Introduction to Professional Writing Credits: 3
OR
- ENGL 272 - Business English Credits: 3

- INDP 251 - Leadership Theory Credits: 3
- MIS 265 - Management Information Systems Credits: 3
- MIS 301 - Practical Computer Security Credits: 3

Organizational Security Concentration - Credits: 15

- CSS 210 - Physical Security Credits: 3
- CSS 240 - Security Management Credits: 3
- CSS 300 - Personnel Security Credits: 3
- CSS 320 - Security Risk and Emergency Mgmt Credits: 3
- MGMT 351 - Organizational Behavior Credits: 3

Major Electives - Credits: 6

Select two courses (6 credits) from the list below

- ACCT 322 - Business Analysis and Decision Making Credits: 3
- CSS 190 - Experimental Credits: 1-3
- CSS 290 - Experimental Credits: 1-3
- CSS 390 - Experimental Credits: 1-3
- CSS 195 - Workshop Credits: 3
- CSS 295 - Workshop Credits: 3
- CSS 395 - Workshop Credits: 3
- CSS 495 - Workshop Credits: 3
- CSS 198 - Selected Topic Credits: 3
- CSS 298 - Selected Topic Credits: 3
- CSS 398 - Selected Topic Credits: 3
- CSS 498 - Selected Topic Credits: 3
- CSS 360 - Specialized Fraud Schemes Credits: 3
- CSS 370 - Fraud Law and Report Writing Credits: 3
- CSS 420 - Fraud Examination Credits: 3
- CSS 450 - Internship Credits: 3 to 9 Electives credits: 6 -9
- CSS 490 - Independent Study Credits: 1 to 3 Elective credits: 3
- HSS 210 - Fundamentals of Terrorism Credits: 3

- INDP 348 - Sociology of Organizations Credits: 3
- INDP 352 - Self Leadership Credits: 3
- INDP 353 - Teambuilding for Leaders Credits: 3
- MIS 333 - Introduction to Computer Forensics Credits: 3

Corporate Security (BS) - Fraud Concentration - Credits: 60

Core Courses - Credits: 39

- ACCT 209 - Financial Accounting Credits: 3
- BUSA 340 - Legal Environment of Business I Credits: 3
- CSS 120 - Introduction to Private Security Credits: 3
- CSS 351 - Fraud Credits: 3
- CSS 352 - Law and Ethics in the Workplace Credits: 3
- CSS 354 - Risk Assessment and Fraud Credits: 3
- CSS 430 - Corporate Security Law Credits: 3
- CSS 440 - Corporate Security Investigation Credits: 3
- CSS 460 - Corporate Security Capstone Credits: 3

- ENGL 205 - Introduction to Professional Writing Credits: 3
OR
- ENGL 272 - Business English Credits: 3

- INDP 251 - Leadership Theory Credits: 3
- MIS 301 - Practical Computer Security Credits: 3
- MIS 265 - Management Information Systems Credits: 3

Fraud Concentration - Credits: 15

- CSS 240 - Security Management Credits: 3
- CSS 360 - Specialized Fraud Schemes Credits: 3
- CSS 370 - Fraud Law and Report Writing Credits: 3
- CSS 420 - Fraud Examination Credits: 3
- MIS 333 - Introduction to Computer Forensics Credits: 3

Major Electives - Credits: 6

Select two courses (6 credits) from the list below

- ACCT 322 - Business Analysis and Decision Making Credits: 3
- CSS 190 - Experimental Credits: 1-3
- CSS 290 - Experimental Credits: 1-3
- CSS 390 - Experimental Credits: 1-3
- CSS 195 - Workshop Credits: 3
- CSS 295 - Workshop Credits: 3
- CSS 395 - Workshop Credits: 3

- CSS 495 - Workshop Credits: 3
- CSS 198 - Selected Topic Credits: 3
- CSS 298 - Selected Topic Credits: 3
- CSS 398 - Selected Topic Credits: 3
- CSS 498 - Selected Topic Credits: 3
- CSS 210 - Physical Security Credits: 3
- CSS 300 - Personnel Security Credits: 3
- CSS 320 - Security Risk and Emergency Mgmt Credits: 3
- CSS 450 - Internship Credits: 3 to 9 Elective credit: 6 - 9
- CSS 490 - Independent Study Credits: 1 to 3 Elective credit: 3
- HSS 120 - Introduction to Homeland Security Credits: 3
- HSS 210 - Fundamentals of Terrorism Credits: 3
- INDP 348 - Sociology of Organizations Credits: 3
- INDP 352 - Self Leadership Credits: 3
- INDP 353 - Teambuilding for Leaders Credits: 3
- MGMT 351 - Organizational Behavior Credits: 3

Homeland Security (BS)

A degree in Bachelor of Science in Homeland Security will academically prepare students to meet the demand for career professionals in core competencies of homeland security studies.

This 60 credit major is part of a 120 credit BS degree program. It includes a cultural awareness/foreign language component, internship opportunities, and a capstone project.

Why Choose Homeland Security?

This field has a high demand for professionals educated in the core competency areas offered by this degree. This is a multi-disciplinary program that academically prepares students for a range of careers in the fast-growing field of homeland security.

What Will You Learn?

Students will learn the fundamentals of planning, analysis and response to domestic and international threats.

Coursework topics include terrorism, risk analysis, physical security, intelligence operations, critical infrastructure protection, law, ethics, and a multicultural competence.

In addition, students will learn field-specific emergent concepts/theories, practices, and technologies focused on safeguarding people, key assets and critical infrastructures.

Careers In Homeland Security

Graduates will be prepared to enter into professional careers in the areas of intelligence, investigations, federal law enforcement, general homeland security mission support, emergency response, immigration and travel security, among others.

Homeland Security (BS) - Credits: 60

Core Courses/General - Credits: 9

- CSS 300 - Personnel Security Credits: 3
- CSS 351 - Fraud Credits: 3
- ENGL 205 - Introduction to Professional Writing Credits: 3
OR
- ENGL 272 - Business English Credits: 3

Core Courses/Major - Credits: 36

- HSS 120 - Introduction to Homeland Security Credits: 3
- HSS 210 - Fundamentals of Terrorism Credits: 3
- HSS 230 - Risk Analysis and Strategic Planning Credits: 3
- HSS 240 - Emergency and Disaster Recovery Credits: 3
- HSS 300 - Terrorist Organizations and Lone Wolves Credits: 3
- HSS 310 - Weapons of Mass Destruction Credits: 3
- HSS 320 - Protecting Infrastructure and Key Assets Credits: 3
- HSS 330 - Intelligence Operations Credits: 3
- HSS 340 - Intelligence for Homeland Security Credits: 3
- HSS 350 - Securing Virtual Infrastructure Credits: 3
- HSS 441 - Terrorism Law & National Security Credits: 3
- HSS 460 - Capstone in Homeland Security Credits: 3

Core Courses/Cultural Awareness Competency - Credits: 9

Students will choose to complete ARAB, CHIN, FREN or SPAN 101, 102 and/or **103**. Proficiency must be met at the 102 and/or 103 level. In place of the 103 level course, one of the courses listed below can be taken.

-OR- Select 1 more course from the following list

Select to take one additional 3 credit course from this list instead of completing ARAB, CHIN, FREN, SPAN at the 103 level to meet the 9 credits needed in Cultural Awareness Competency block.

- ARAB 215 - Topics in Arabic Culture Credits: 3
- CHIN 202 - Intermediate Chinese I Credits: 3
- CHIN 306 - Survey of Chinese Civilization and Culture Credits: 3
- FREN 215 - Topics in French and Francophone Culture Credits: 3
- HIST 352 - Latin America Since 1830 Credits: 3
- HIST 382 - Modern Asian Pacific Rim Credits: 3
- HIST 386 - Modern China Credits: 3
- HIST 462 - The Contemporary Middle East Credits: 3
- HIST 463 - Israel - History, State, and Society Credits: 3
- INDP 310 - Cultural Area Studies Credits: 3
- SPAN 104 - Situational Spanish Credits: 3
- SPAN 215 - Topics in Hispanic Culture Credits: 3

Major Electives - Credits: 6

- HSS 190 - Experimental Credits: 1-3
- HSS 290 - Experimental Credits: 1-3
- HSS 390 - Experimental Credits: 1-3
- HSS 195 - Workshop Credits: 3
- HSS 295 - Workshop Credits: 3
- HSS 395 - Workshop Credits: 3
- HSS 495 - Workshop Credits: 3
- HSS 198 - Selected Topic Credits: 3
- HSS 298 - Selected Topic Credits: 3
- HSS 398 - Selected Topic Credits: 3
- HSS 498 - Selected Topic Credits: 3
- HSS 450 - Internship Credits: 3 to 9 Credits for this elective: 6 -9
- HSS 490 - Independent Study Credits: 1 to 3 Credits for this elective: 3
- CRIM 343 - Criminal Investigations Credits: 3
- CSS 352 - Law and Ethics in the Workplace Credits: 3
- CSS 354 - Risk Assessment and Fraud Credits: 3
- INDP 244 - Artificial Intelligence in Cognitive Studies and Film Credits: 3
- INDP 321 - Minority Groups Credits: 3
- INDP 327 - Religion and Society Credits: 3
- INDP 340 - Social Inequality Credits: 3
- INDP 350 - Multicultural Leadership Credits: 3
- INDP 352 - Self Leadership Credits: 3
- INDP 353 - Teambuilding for Leaders Credits: 3
- MIS 301 - Practical Computer Security Credits: 3
- MIS 333 - Introduction to Computer Forensics Credits: 3
- MS 302 - Advanced Military Skills Credits: 4
- MS 401 - Leadership Dimensions and Concepts Credits: 4
- PHIL 331 - Social and Political Philosophy Credits: 3
- PHIL 341 - Philosophy of Religion Credits: 3
- POLS 322 - The United Nations and International Law Credits: 3
- POLS 365 - International Political Economy Credits: 3
- POLS 403 - Constitutional Law Credits: 3

Minor in Fraud

One of the most misunderstood and underestimated aspects of our economy is the amount of money and potential jobs and benefits lost due to fraud and waste in the private and public sectors, charities and non-government organizations. Fraud occurs in all disciplines including but not limited to education (fraudulent reporting of test results, plagiarism, embezzlement), all aspects of healthcare (fraudulent licensing, fraudulent medical billing), business and business related careers (sport management, resort management and business-with employees stealing assets, engaging in identity theft, and corruption), criminology (white collar crime) and homeland security (funding of terrorism through fraud and complex financial crimes). As a result, students in any discipline can benefit from the minor in fraud.

Minor in Fraud - Credits: 18

Core Requirements - Credits: 12

- CSS 120 - Introduction to Private Security Credits: 3
- CSS 351 - Fraud Credits: 3
- CSS 354 - Risk Assessment and Fraud Credits: 3
- CSS 360 - Specialized Fraud Schemes Credits: 3

Choose two Electives - Credits: 6

- CSS 210 - Physical Security Credits: 3
- CSS 300 - Personnel Security Credits: 3
- CSS 430 - Corporate Security Law Credits: 3
- CSS 440 - Corporate Security Investigation Credits: 3

Minor in Homeland Security

The BS in Homeland Security was created due to the complex and diverse national security environment we face domestically and internationally. Many professions are affected by changes in national security legislation and directives from the Department of Homeland Security and related agencies. Programs that prepare students in safety, emergency management, criminology, leadership positions in government or ROTC can benefit from this minor. Furthermore, the Commonwealth of Pennsylvania Governor's Office of Homeland Security has been tasked to protect people, assets and infrastructure and act as the liaison between the federal government and the private sector within Pennsylvania.

Minor in Homeland Security - Credits: 18

Core Requirements - Credits: 12

- HSS 120 - Introduction to Homeland Security Credits: 3
- HSS 210 - Fundamentals of Terrorism Credits: 3
- HSS 230 - Risk Analysis and Strategic Planning Credits: 3
- HSS 240 - Emergency and Disaster Recovery Credits: 3

Choose two Electives - Credits: 6

- CSS 300 - Personnel Security Credits: 3
- CSS 351 - Fraud Credits: 3
- HSS 300 - Terrorist Organizations and Lone Wolves Credits: 3
- HSS 310 - Weapons of Mass Destruction Credits: 3
- HSS 320 - Protecting Infrastructure and Key Assets Credits: 3

Minor in Organizational Security

All organizations are tasked with protecting their employees, invitees and clients, their economic and tangible assets (cash, property, intellectual property) and infrastructure (buildings) from man-made (terrorism, espionage, violence) and natural disasters (earthquakes, floods, fires, etc.). Organizations must implement policies and procedures, physical security measures, personnel protection and business emergency and business continuity plans in order to stay

viable. This minor will be of great benefit to business majors, resort management majors, safety majors, sport management majors, criminology and criminal justice majors and computing majors.

Minor in Organizational Security - Credits: 12

Core Requirements - Credits: 12

- CSS 120 - Introduction to Private Security Credits: 3
- CSS 210 - Physical Security Credits: 3
- CSS 300 - Personnel Security Credits: 3
- CSS 351 - Fraud Credits: 3

Choose two Electives - Credits: 6

- CSS 240 - Security Management Credits: 3
- CSS 430 - Corporate Security Law Credits: 3
- CSS 440 - Corporate Security Investigation Credits: 3

Interdisciplinary Programs

Interdisciplinary Programs

Office: 200 Spotts World Culture
Phone: 724-738-4192

Chair

Armand Policicchio

Secretary

Drew Campbell

Faculty

Aksel Casson, Alice DelVecchio, Richelle Dykstra, Ahmad Khalili, Cindy LaCom, Susan Parsons, Armand Policicchio

The BS, Interdisciplinary Programs is an outcome based degree that draws upon the richness of a liberal arts curriculum, incorporating and joining together social science theory and practice with theory and practice from the professions. This degree can lead into employment after graduation or to graduate school. The degree can be a stand-alone degree; it can be part of a program of studies that utilizes two majors (Interdisciplinary Programs and another major) or it can link Interdisciplinary Programs and one of more minors. The faculty in the Department of Interdisciplinary Programs encourages students to develop programs of study that link complimentary areas together, as described above. This approach can lead to the development of broader knowledge and understanding and the development of multiple skill areas. These are important assets to any student as they seek employment and/or look to graduate work.

The BS, Interdisciplinary Programs degree offers the student a choice among seven concentrations, many with specific subfields. They are:

Concentrations and subfields, where noted, are available in the following areas:

- **Anthropology**
 - Applied Anthropology
 - Biological Anthropology
 - Cultural Anthropology

- **Cultural Area Studies** (this concentration is jointly operated by both the Department of Interdisciplinary Programs and the Department of Modern Languages and Cultures)
 - American Studies
 - Asian Studies
 - European Studies
 - Latin American Studies
 - Middle East Studies

- **Gender and Diversity Studies**
 - Diversity
 - Gender

- **Leadership Studies**

- **Liberal Arts**
 - On-campus Degree Completion
 - Online Degree Completion
 - Individually Designed Program of Study

- **Philanthropy and Nonprofit Management**

- **Sociology**
 - Applied Sociology
 - Medical Sociology
 - Public Sociology

Minors offered by the Department of Interdisciplinary Programs are:

- **Anthropology**
- **Leadership Studies**
- **Philanthropy and Nonprofit Management**
- **Sociology**

Other minors/programs associated with individual faculty in the Department of Interdisciplinary Programs are:

- Asian Studies Minor (with the Asian Studies Program)
- Gender and Diversity Studies Minor (with the Gender and Diversity Studies Center)

Degree Requirements

The BS, Interdisciplinary Programs degree is a 42 credit hour program. It has five outcomes that are common to all of the concentrations. They are:

Core Requirements

1. Oral and Written Communication Outcomes – 6 credits
2. Interpersonal Skills and Civic Responsibility Outcomes – 6 credits
3. Quantitative, Analytical and Critical Thinking Skills Outcomes – 6 credits

Emphasis Requirement

1. Emphasis Area Outcomes – 24 credits

Experiential Learning Requirement

5. Experiential Learning Outcomes – credit or non-credit

Each concentration assigns different courses to be taken to meet the outcomes. Please check the Curriculum Guides for each concentration for specific course requirements. Where the guides indicate that the course requirement is by advisement, please consult with your academic advisor for the courses needed to meet that particular requirement. The Experiential Learning requirement is one that is completed over the course of your time within the concentration. Students can complete this requirement with credit coursework and/or non-credit activities approved by your advisor. See your advisor for details.

Requirements for the Liberal Arts Concentration

Please note that students seeking the Liberal Arts concentration must meet one of the following requirements:

- **On-campus Degree Completion:** open only to current SRU students having a 2.00 GPA and at least 90 credits. A meeting with a faculty member in the department is required before a student's change of major into the department is accepted.
- **Online Degree Completion:** must have a 2.00 GPA; open to current students, readmitted students and transfer students. A meeting with a department faculty member, by phone, e-mail or in person is required before a student's change of major or declaration of major into the department is accepted.
- **Individually Designed Program:** current students must have a 2.00 GPA and less than 90 credits and is open to transfer students with a transfer GPA of at least a 2.00. A meeting with a department faculty member in the department is required before a student can declare a major in the department.

Additional Information

Newly admitted students (First Year students or Transfer students) can declare a major and select a concentration upon admission to the university.

Current students, after their initial semester of attendance, must have earned a 2.00 GPA before they can change their major to Interdisciplinary Programs.

Students are encouraged to examine the Department of Interdisciplinary Programs website and/or contact the department for more detailed information about courses, activities, student organizations, career information for the concentration and graduate student opportunities.

Certificate in Philanthropy and Nonprofit Management

Required Courses - Credits: 15

- INDP 120 - Civic Engagement and Community Decision-Making Credits: 3
- INDP 305 - Financial Best Practice for Decision Makers Credits: 3
- INDP 220 - Introduction to Nonprofit Management Credits: 3
- INDP 320 - Community Change and Development Credits: 3
- INDP 325 - Social and Ethical Issues in Philanthropy and Fundraising Credits: 3

Certificate in Writing for the Nonprofit Sector

Required Credits: 15

Required Courses:

- ENGL 205 - Introduction to Professional Writing Credits: 3
- INDP 220 - Introduction to Nonprofit Management Credits: 3
- INDP 325 - Social and Ethical Issues in Philanthropy and Fundraising Credits: 3

And 2 of the Following Courses:

- ENGL 309 - Advanced Professional Writing Credits: 3
- ENGL 429 - Grant and Proposal Writing Credits: 3
- ENGL 365 - Writing for the World Wide Web Credits: 3
- INDP 120 - Civic Engagement and Community Decision-Making Credits: 3

Interdisciplinary Programs (BS) - Concentration in Anthropology

Major Requirements - Credits: 42

Core Courses - Credits: 18

At least 6 credits in each of the following areas:

Oral and Written Communication - Credits: 6

- INDP 106 - Race and Ethnic Diversity in the USA Credits: 3
- INDP 202 - Introduction to Anthropology Credits: 3

Interpersonal Skills and Civic Responsibility - Credits: 6

- INDP 211 - Biological Anthropology Credits: 3
- INDP 212 - Archaeology/World Prehistory Credits: 3
- INDP 310 - Cultural Area Studies Credits: 3

Analytical, Quantitative & Critical Thinking Skills - Credits: 6

- INDP 317 - Statistics for the Social Sciences Credits: 3
 - INDP 318 - Research Methods in Interdisciplinary Studies Credits: 3
- OR
- INDP 401 - Applied Anthropology Credits: 3

Emphasis Area - Credits: 24

Courses selected by advisement. Courses selected should be related to or support the outcomes of one of the three following areas: 1) Cultural Anthropology, 2) Archeology and Biological Anthropology, or 3) Applied Anthropology

Experiential Learning Activities

Must complete 40 hours of experiential learning activities which are approved by the Academic Advisor. Please consult with your Advisor for details of the options available.

Interdisciplinary Programs (BS) - Concentration in Cognitive Science

Major Requirements - Credits: 42

Core Courses - Credits: 18

At least 3 credits in each of the following areas.

Oral and Written Communication Skills - Credits: 6

- INDP 144 - Introduction to Cognitive Studies Credits: 3
- INDP 215 - Introduction to Consciousness Credits: 3

Interpersonal Skills and Civic Responsibility - Credits: 6

- INDP 244 - Artificial Intelligence in Cognitive Studies and Film Credits: 3
- INDP 315 - Mindfulness and the Brain Credits: 3
- INDP 344 - Left and Right Brain: From Neuron to Culture Credits: 3

Analytical, Quantitative & Critical Thinking Skills - Credits: 6

- INDP 317 - Statistics for the Social Sciences Credits: 3
- INDP 318 - Research Methods in Interdisciplinary Studies Credits: 3
- INDP 456 - Research in Cognitive Science Credits: 3

Emphasis Area - Credits: 24

24 credits from any of the categories below. Students must take at least one course in each area.

A. Mind and Brain - Credits: 3-9

- BIOL 102 - Human Biology Credits: 3
- INDP 202 - Introduction to Anthropology Credits: 3
- INDP 211 - Biological Anthropology Credits: 3
- INDP 315 - Mindfulness and the Brain Credits: 3
- INDP 344 - Left and Right Brain: From Neuron to Culture Credits: 3
- PHIL 351 - Philosophy of Natural Science Credits: 3

B. Intelligence, Perception and Technology - Credits: 3-9

- CPSC 130 - Introduction to Computing and Programming Credits: 3
- CPSC 146 - Programming Principles Credits: 3
- CPSC 300 - Challenges of Computer Technology Credits: 3
- ENGL 230 - Introduction to Linguistics and Grammar Credits: 3
- INDP 244 - Artificial Intelligence in Cognitive Studies and Film Credits: 3
- PHIL 113 - Formal Logic Credits: 3

C. Consciousness, Self and Others - Credits: 3-9

- COMM 217 - Intercultural Communication Credits: 3
- COMM 314 - Interpersonal Communication Credits: 3
- INDP 215 - Introduction to Consciousness Credits: 3
- INDP 326 - Society, Culture and Self Credits: 3
- INDP 350 - Multicultural Leadership Credits: 3
- INDP 327 - Religion and Society Credits: 3
- INDP 352 - Self Leadership Credits: 3
- PHIL 123 - Ethics Credits: 3
- PHIL 343 - Asian Philosophy Credits: 3

Experiential learning Activities

Must complete 40 hours of experiential learning activities which are fulfilled by section D above or an approved substitution by the Academic Advisor. Please consult with your advisor for details of the options available.

Interdisciplinary Programs (BS) - Concentration in Cultural Area Studies

Major Requirements - Credits: 42

Core Courses - Credits: 18

At least 6 credits in each of the following areas:

Oral and Written Communication - Credits: 6

Choose two courses from the following list:

- COMM 217 - Intercultural Communication Credits: 3
- GES 105 - World Regional Geography Credits: 3
- HIST 153 - Contemporary World History Credits: 3
- POLS 103 - International Relations Credits: 3

Interpersonal Skills and Civic Responsibility - Credits: 6

Take Modern Language courses at the 102 and 103, approved for your cultural area. American studies students must take ENGL 331 and another course by advisement.

Credits 3: Modern Language course (ARAB 102, CHIN 102, FREN 102, JAPN 102, KORN 102, SPAN 102) or ENGL 331 (American Studies students only)

Credits 3: Modern Language course (ARAB 103, CHIN 103, FREN 103, JAPN 103, KORN 103, SPAN 103) or Approved Course (American Studies students only)

Analytical, Quantitative & Critical Thinking Skills - Credits: 6

Choose one of the following courses approved for your cultural area - Credits: 3

European:

- HIST 151 - Ancient and Medieval World Credits: 3
- HIST 152 - Rise of the Modern World Credits: 3

American Studies:

- INDP 106 - Race and Ethnic Diversity in the USA Credits: 3

Middle East:

- INDP 310 - Cultural Area Studies Credits: 3

Latin America:

- INDP 322 - Archaeology of the Americas Credits: 3

Asian Studies:

- MODL 105 - Introduction to Asian Civilizations Credits: 3

Choose one of the following courses - Credits: 3

- INDP 317 - Statistics for the Social Sciences Credits: 3
- INDP 318 - Research Methods in Interdisciplinary Studies Credits: 3

Emphasis Area - Credits: 24

Courses selected by advisement

Part 1 - Credits: 15

Primary Cultural Area - America, Asia, Europe, Latin America or Middle East. Choose five courses in the following categories: Foundations, Culture and Society, History, Current Issues

Part 2 - Credits: 9

9 credits of elective courses

Experiential Learning Activities

Must complete 40 hours of experiential learning activities which are approved by the Academic Advisor. Please consult with your Advisor for details of the options available.

Interdisciplinary Programs (BS) - Concentration in Gender and Diversity Studies

Major Requirements - Credits: 42

Core Courses - Credits: 18

At least 6 credits in each of the following areas:

Oral and Written Communication - Credits: 6

Required Course - Credits: 3

- GNDR 115 - Introduction to Gender Studies Credits: 3

Additional Course - Credits: 3

- ENGL 104 - Critical Reading Credits: 3 w/ focus on Gender
- ENGL 243 - Literature of the Women's Movement Credits: 3
- GES 105 - World Regional Geography Credits: 3 w/focus on Gender
- INDP 106 - Race and Ethnic Diversity in the USA Credits: 3
- INDP 339 - Gender Roles and Society Credits: 3
- SOWK 105 - Human Diversity Credits: 3

Interpersonal Skills and Civic Responsibility - Credits: 6

Choose 2 courses from the following list and by advisement

- ENGL 242 - African-American Literature Credits: 3
- ENGL 244 - Native American Literature Credits: 3
- ENGL 248 - Asian Literature Credits: 3
- GES 201 - Latin America and the Caribbean Credits: 3
- GNDR 120 - Introduction to the Study of Masculinities Credits: 3
- HLTH 211 - Women's Health Issues Credits: 3
- PHIL 140 - World Religions Credits: 3
- POLS 356 - Gay and Lesbian Politics Credits: 3
- PSYC 240 - Human Sexual Behavior Credits: 3
- Approved Course - Credits: 3

Analytical, Quantitative & Critical Thinking Skills - Credits: 6

Choose 2 courses from the following list and by advisement

- COMM 217 - Intercultural Communication Credits: 3
- GNDR 415 - Feminist Perspectives in the Disciplines Credits: 3
- GNDR 450 - Internship Credits: 1 to 12 Credits: 3
- GNDR 490 - Independent Study Credits:
- HIST 313 - U.S. Manhood and Masculinities Credits: 3
- PHIL 336 - Philosophy of Gender and Sex Credits: 3
- PSYC 300 - Psychology of Women, Gender and Culture Credits: 3
- Approved Course - Credits: 3

Emphasis Area - Credits: 24

Courses selected by advisement

Part 1 - Credits: 15

Primary Emphasis - Gender or Diversity - 15 credits in the following categories: Foundations, Culture and Society, History or Current Issues (by advisement)

Part 2 - Credits: 9

9 credits of elective courses by advisement

Experiential Learning Activities

Must complete 40 hours of experiential learning activities which are approved by the Academic Advisor. Please consult with your Advisor for details of the options available.

Interdisciplinary Programs (BS) - Concentration in Leadership Studies

Major Requirements - Credits: 42

- 21 major credits must be taken at SRU or PASSHE
- 21 major credits must be taken at the 300 level or above (Advisor approved courses)

Core Courses - Credits: 18

At least 6 credits in each of the following areas:

Oral and Written Communication - Credits: 6

- INDP 251 - Leadership Theory Credits: 3
- INDP 354 - Strategic Planning and Decision Making for Leaders Credits: 3
- MS 102 - Principles of Leadership Credits: 3
- MS 301 - Fundamentals of Tactical Operations Credits: 4

Interpersonal Skills and Civic Responsibility - Credits: 6

- INDP 350 - Multicultural Leadership Credits: 3
- INDP 352 - Self Leadership Credits: 3
- INDP 353 - Teambuilding for Leaders Credits: 3

Analytical, Quantitative & Critical Thinking Skills - Credits: 6

- INDP 252 - Leadership Practicum Credits: 3
- INDP 317 - Statistics for the Social Sciences Credits: 3
- INDP 318 - Research Methods in Interdisciplinary Studies Credits: 3

Emphasis Area - Credits: 24

24 credits from the categories below. Students must take at least one course in each area.

A: Self Leadership - Credits: 3-9

- COMM 314 - Interpersonal Communication Credits: 3
- CSS 354 - Risk Assessment and Fraud Credits: 3
- INDP 305 - Financial Best Practice for Decision Makers Credits: 3
- INDP 215 - Introduction to Consciousness Credits: 3
- INDP 326 - Society, Culture and Self Credits: 3
- INDP 352 - Self Leadership Credits: 3
- PHIL 123 - Ethics Credits: 3
- MS 201 - Basic Military Skills Credits: 3

- MS 202 - Intermediate Military Skills Credits: 3

B: Group Leadership - Credits: 3-9

- COMM 215 - Small Group Communication Credits: 3
- INDP 310 - Cultural Area Studies Credits: 3
- INDP 321 - Minority Groups Credits: 3
- INDP 339 - Gender Roles and Society Credits: 3
- INDP 344 - Left and Right Brain: From Neuron to Culture Credits: 3
- INDP 350 - Multicultural Leadership Credits: 3
- INDP 353 - Teambuilding for Leaders Credits: 3
- PCRM 342 - Group Facilitation and Leadership Credits: 3
- MGMT 351 - Organizational Behavior Credits: 3
- MS 301 - Fundamentals of Tactical Operations Credits: 4
- MS 302 - Advanced Military Skills Credits: 4

C: Organizational Leadership - Credits: 3-9

- COMM 217 - Intercultural Communication Credits: 3
- COMM 315 - Organizational Communication Credits: 3
- CSS 352 - Law and Ethics in the Workplace Credits: 3
- INDP 120 - Civic Engagement and Community Decision-Making Credits: 3
- INDP 348 - Sociology of Organizations Credits: 3
- INDP 354 - Strategic Planning and Decision Making for Leaders Credits: 3
- MGMT 341 - Organizational Leadership Credits: 3
- MS 401 - Leadership Dimensions and Concepts Credits: 4
- MS 402 - Officership and the Profession of Arms Credits: 4

D: Leadership Experience - Credits: 3-6

- INDP 450 - Internship Credits: 1 to 12
- INDP 355 - Leadership Development Course Credits: 3
- INDP 252 - Leadership Practicum Credits: 3
- MS 250 - ROTC Basic Leadership Practicum Credits: 3
- MS 350 - ROTC Advanced Leadership Practicum Credits: 3

Experiential Learning Activities

Must complete 40 hours of experiential learning activities which are fulfilled by section D above or an approved substitution by the Academic Advisor. Please consult with your Advisor for details of the options available.

Interdisciplinary Programs (BS) - Concentration in Leadership Studies - Online Degree Completion Program

This academic **ONLINE DEGREE COMPLETION PROGRAM** is designed for experienced college students, **WHO HAVE COMPLETED SOME COURSEWORK AND PROVEN THEIR ABILITY TO SUCCEED AT**

THE COLLEGE LEVEL. Specifically, the Leadership Studies program provides a strong foundation for work in any employment sector. The curriculum includes coursework to help students make decisions and problem-solve, analyze data, work in a team environment, professionally communicate and manage time and proficiently organize the work environment.

Admission requirements for this program are as follows:

- Applicants must hold an associate degree from an SRU-recognized accredited program, which must include the equivalent of the following SRU courses:
 - English Writing Proficiency: Students must transfer the equivalency of SRU's ENGL 102 - Critical Writing course,
 - Math Proficiency: Students must transfer the equivalency of SRU's ACSD 110 - Beginning Algebra, or a higher level Math,
 - Computer Competency: Students must transfer the equivalency of SRU's CPSC 110 - Computer Concepts,
- Applicants must have earned a cumulative GPA of 2.0 or higher from all post-secondary institutions attended.
- Applicants must be in good academic standing at most recent institution attended.

Applicants, who do not hold a recognized associate degree but have earned 60 or more college credits including sufficient Liberal Studies coursework, *may* be considered for the program. Recognition of the program and eligibility for program admission is determined by the Transfer Admissions office.

Major Requirements - Credits: 42

- 21 major credits must be taken at SRU or PASSHE
- 21 major credits must be taken at the 300 level or above (Advisor approved courses)

Core Courses - Credits: 18

Oral and Written Communication Skills - Credits: 6

- INDP 251 - Leadership Theory Credits: 3
- INDP 354 - Strategic Planning and Decision Making for Leaders Credits: 3

Interpersonal Skills and Civic Responsibility - Credits: 6

- INDP 350 - Multicultural Leadership Credits: 3
- INDP 352 - Self Leadership Credits: 3
- INDP 353 - Teambuilding for Leaders Credits: 3

Analytical, Quantitative & Critical Thinking Skills - Credits: 6

- INDP 253 - Online Practical Research Credits: 3
- INDP 317 - Statistics for the Social Sciences Credits: 3

Emphasis Area - Credits: 24

24 credits from the categories below. Students must take at least one course in each area.

A: Leading Self - Credits: 3-9

- CSS 354 - Risk Assessment and Fraud Credits: 3
- INDP 305 - Financial Best Practice for Decision Makers Credits: 3
- INDP 352 - Self Leadership Credits: 3

B: Leading Others - Credits: 3-12

- INDP 310 - Cultural Area Studies Credits: 3
- INDP 321 - Minority Groups Credits: 3
- INDP 350 - Multicultural Leadership Credits: 3
- INDP 353 - Teambuilding for Leaders Credits: 3
- MGMT 351 - Organizational Behavior Credits: 3

C: Leading Organizations - Credits: 3-12

- COMM 217 - Intercultural Communication Credits: 3
- CSS 352 - Law and Ethics in the Workplace Credits: 3
- INDP 120 - Civic Engagement and Community Decision-Making Credits: 3
- INDP 348 - Sociology of Organizations Credits: 3
- CSS 354 - Risk Assessment and Fraud Credits: 3
- MGMT 341 - Organizational Leadership Credits: 3

D: Leadership Experience - Credits: 6

- INDP 253 - Online Practical Research Credits: 3
- INDP 450 - Internship Credits: 1 to 12

Experiential learning Activities

Must complete 40 hours of experiential learning activities which are fulfilled by section D above or by an approved substitution by the Academic Advisor. Please consult with your Advisor for details of the options available.

Other Basic Requirement

Must pass this developmental course or be Exempt.

- ACSD 110 - Beginning Algebra Credits: 3

Computer Competency - 0-3

Students must demonstrate "computer competency" by completing or transferring the equivalent of one of the following SRU courses, or by passing the SRU Computer Competency Exam.

- CPSC 100 - Introduction to Computing for Liberal Arts Credits: 1
- CPSC 110 - Computer Concepts Credits: 3
- CPSC 130 - Introduction to Computing and Programming Credits: 3
- PE 202 - Technology for Wellness Credits: 3

Interdisciplinary Programs (BS) - Concentration in Liberal Arts

Department of Interdisciplinary Programs

The BS in Interdisciplinary Programs is an outcome based degree, drawing from the richness of a liberal arts based education, which provides opportunities for students to develop an interdisciplinary educational program of study in consultation with their adviser. Students select courses that demonstrate competency in the following three areas:

1. Oral and Written Communications
2. Interpersonal Skills and Civic Responsibility
3. Quantitative, Analytical, and Critical Thinking Skills

Students will also demonstrate, through courses or non-credit experiences, that they have had experiential learning experiences related to their course of study. The specific courses used to meet these degree requirements vary with each student. The courses selected to meet the above listed outcomes are based upon the academic emphasis identified by the student for their program of study and are approved by their academic adviser.

What can students study with this degree? The degree provides three types of academic opportunities. The first, **degree completion**, provides opportunities for students to graduate with a program of study that builds upon their prior educational experiences when they find they are unable to complete their current degree program. The second allows students, with their adviser, to develop a **self-designed program of study** in the following areas:

- Sociology
- Anthropology
- Asian Studies
- Non-Profit Leadership
- Fraud
- Pre-Law and other Pre-Professional Programs

The department also offers a number of minors in the following areas: Sociology, Anthropology, Non-Profit Leadership, and Leadership.

All students must have a 2.00 GPA and have earned 30 credits before they can be accepted into the degree program. Minors do not carry these requirements. New students to the university can select this degree, but will start their program of study in the Exploratory Program while having faculty from the Department of Interdisciplinary Programs serve as their advisers. Once the degree entry requirements are met the students formally move into the degree program.

The BS in Interdisciplinary Programs affords students opportunities to be flexible and creative in designing their program of study. Students who want to integrate more than one area of study in ways not found in Slippery Rock's traditional majors may consider this degree. Students with a specific career or professional interest, an interest in graduate school or a graduate level professional program that has certain competencies, but does not require a specific undergraduate major, may find this degree appropriate for them. This degree is also valuable as a second major for students who want more than a minor to their program of study.

Major Requirements – Credits: 42

Adviser approved courses. Must complete minimum of 21 credits at the 300-400 level

Core Courses - Credits: 18

Must complete 6 credits in each of the following areas:

Oral and Written Communication

Interpersonal Skills and Civic Responsibility

Analytical, Quantitative, and Critical Thinking Skills

Emphasis Area - Credits: 24

Courses selected should be related to or support the outcomes of the Emphasis Area developed with the academic adviser.

Experiential Learning Activities

Must complete 40 hours of experiential learning activities that are approved by the academic adviser. Please consult with your adviser for details of the options available.

Interdisciplinary Programs (BS) - Concentration in Liberal Arts - Online Degree Completion Program

This academic **ONLINE DEGREE COMPLETION PROGRAM** is designed for experienced college students, **WHO HAVE COMPLETED SOME COURSEWORK AND PROVEN THEIR ABILITY TO SUCCEED AT THE COLLEGE LEVEL**. Specifically, the program allows a student the opportunity to work with a faculty advisor to create an individualized program that makes best use of already earned credits, while striving to facilitate unique interests and goals.

Admission requirements for this program are as follows:

- Applicants must hold an associate degree from an SRU-recognized accredited program, which must include the equivalent of the following SRU courses:
 - English Writing Proficiency: Students must transfer the equivalency of SRU's ENGL 102 - Critical Writing course,
 - Math Proficiency: Students must transfer the equivalency of SRU's ACSD 110 - Beginning Algebra, or a higher level Math,
 - Computer Competency: Applicants must transfer the equivalency of SRU's CPSC 110 - Computer Concepts,

- Applicants must have earned a cumulative GPA of 2.0 or higher from all post-secondary institutions attended.

Applicants must be in good academic standing at most recent institution attended.

Applicants, who do not hold a recognized associate degree but have earned 60 or more college credits including sufficient Liberal Studies coursework (27-30 credits,) may be considered for the program. Recognition of the program and eligibility for program admission is determined by the Transfer Admissions office.

Major Requirements - Credits: 42

- 21 major credits must be taken at SRU or PASSHE
- 21 major credits must be taken at the 300 level or above

Advisor approved courses.

Core Courses - Credits: 18

At least 6 credits in each of the following areas:

Oral and Written Communication Skills - Credits: 6

Interpersonal Skills and Civic Responsibility - Credits: 6

Analytical, Quantitative & Critical Thinking Skills - Credits: 6

Emphasis Area - Credits: 24

Courses selected should be related to or support the outcomes of the Emphasis Area developed with the Academic Advisor.

Experiential Learning Activities - Credits: 40

Must complete 40 hours of experiential learning activities that are approved by the Academic Advisor. Please consult with your Advisor for details of the options available.

Liberal Studies Requirements - Credits: 45-46

Computer Competency - 0-3

Students must demonstrate "computer competency" by completing one of the following courses at SRU or transfer from another post-secondary institution.

- CPSC 100 - Introduction to Computing for Liberal Arts Credits: 1
- CPSC 110 - Computer Concepts Credits: 3
- CPSC 130 - Introduction to Computing and Programming Credits: 3
- PE 202 - Technology for Wellness Credits: 3

Other Basic Requirement

Check with your advisor or a current degree audit report to see if you have been exempted from this course. The credits earned in this course will not be counted toward the 120 minimum needed to earn a degree.

- ACSD 110 - Beginning Algebra Credits: 3

Interdisciplinary Programs (BS) - Concentration in Philanthropy and Nonprofit Management

Major Requirements - Credits: 42

Core Courses - Credits: 18

At least 6 credits in each of the following areas:

Oral and Written Communication - Credits: 6

- INDP 220 - Introduction to Nonprofit Management Credits: 3
- ENGL 205 - Introduction to Professional Writing Credits: 3
- COMM 231 - Introduction to Public Relations and IMC Credits: 3

Interpersonal Skills and Civic Responsibility - Credits: 6

- INDP 120 - Civic Engagement and Community Decision-Making Credits: 3
- INDP 320 - Community Change and Development Credits: 3

Analytical, Quantitative & Critical Thinking Skills - Credits: 6

- INDP 305 - Financial Best Practice for Decision Makers Credits: 3
- INDP 325 - Social and Ethical Issues in Philanthropy and Fundraising Credits: 3

Emphasis Area - Credits: 24

Internship placement and Nonprofit Specialty area selected through advisement

Required Course - Credits: 3

- INDP 450 Internship (minimum of 3 credits)

Emphasis Area Electives - Credits: 21

Experiential Learning Activities

Must complete 40 hours of experiential learning activities, which are approved by the Academic Advisor. Please consult with your Advisor for details of the options available.

Interdisciplinary Programs (BS) - Concentration in Philanthropy and Nonprofit Management - Online Degree Completion Program

This academic **ONLINE DEGREE COMPLETION PROGRAM** is designed for experienced college students, **WHO HAVE COMPLETED SOME COURSEWORK AND PROVEN THEIR ABILITY TO SUCCEED AT THE COLLEGE LEVEL**. Specifically, this program provides a strong foundation for those who plan to work in the nonprofit sector and need to develop expertise in how to develop and manage programs, measure organizational effectiveness, generate funds through grants and special events, prepare budgets and maintain financial records, develop marketing tools and public relations materials, recruit and supervise volunteers, advocate for the needs of clients, and conduct human resources functions like hiring and evaluating staff.

Admission requirements for this program are as follows:

- To be considered for admission to this program, applicants must hold an associate degree from an SRU-recognized accredited program, which must include the equivalent of the following SRU courses:
 - English Writing Proficiency: Students must transfer the equivalency of SRU's ENGL 102 - Critical Writing course,
 - Math Proficiency: Students must transfer the equivalency of SRU's ACSD 110 - Beginning Algebra, or a higher level Math,
 - Computer Competency: Applicants must transfer the equivalency of SRU's CPSC 110 - Computer Concepts,
- GPA Requirement: Applicants must have earned a cumulative GPA of 2.0 or higher from all post-secondary institutions attended.
- Applicants must be in good academic standing at most recent institution attended.

Applicants, who do not hold a recognized associate degree but have earned 60 or more college credits including sufficient Liberal Studies coursework (27-30 credits,) may be considered for the program. Recognition of the program and eligibility for program admission is determined by the Transfer Admissions office.

Major Requirements - Credits: 42

Core Courses - Credits: 18

Oral and Written Communication Skills - Credits: 6

- INDP 220 - Introduction to Nonprofit Management Credits: 3
- ENGL 205 - Introduction to Professional Writing Credits: 3
- OR
- COMM 231 - Introduction to Public Relations and IMC Credits: 3

Interpersonal Skills and Civic Responsibility - Credits: 6

- INDP 120 - Civic Engagement and Community Decision-Making Credits: 3
- INDP 320 - Community Change and Development Credits: 3

Analytical, Quantitative & Critical Thinking Skills - Credits: 6

- INDP 305 - Financial Best Practice for Decision Makers Credits: 3
- INDP 325 - Social and Ethical Issues in Philanthropy and Fundraising Credits: 3

Emphasis Area - Credits: 24

- INDP 450 - Internship Credits: 1 to 12 (minimum of 3 credits)
- Emphasis course TBD - Credits: 3
- Emphasis course TBD - Credits: 3
- Emphasis course TBD - Credits: 3
- Emphasis course TBD - Credits: 3
- Emphasis course TBD - Credits: 3
- Emphasis course TBD - Credits: 3
- Emphasis course TBD - Credits: 3

Experiential learning Activities

Must complete 40 hours of experiential learning activities, through course-related service learning and/or Internship, which must be approved by the Academic Advisor. Please consult with your Advisor for available options.

Liberal Studies Requirements - Credits: 45

Online program students must complete a sum total of 45 SRU liberal studies-based credits; there are no specific requirements.

Other Basic Requirement

Must pass this developmental course or be Exempt.

- ACSD 110 - Beginning Algebra Credits: 3

Electives - Credits: 33

Computer Competency - 0-3

Students must demonstrate "computer competency by completing or transferring the equivalent of one of the following courses or by passing the SRU Computer Competency Exam.

- CPSC 100 - Introduction to Computing for Liberal Arts Credits: 1
- CPSC 110 - Computer Concepts Credits: 3
- CPSC 130 - Introduction to Computing and Programming Credits: 3
- PE 202 - Technology for Wellness Credits: 3

Interdisciplinary Programs (BS) - Concentration in Sociology

Major Requirements - Credits: 42

Core Courses - Credits: 18

At least 6 credits in each of the following areas:

Oral and Written Communication - Credits: 6

- INDP 201 - Principles of Sociology Credits: 3
- INDP 304 - Urban Sociology Credits: 3

Interpersonal Skills and Civic Responsibility - Credits: 6

Choose two courses from the following:

- INDP 103 - Contemporary Social Problems Credits: 3
- INDP 106 - Race and Ethnic Diversity in the USA Credits: 3
- INDP 326 - Society, Culture and Self Credits: 3
- INDP 330 - Collective Behavior Credits: 3

Analytical, Quantitative & Critical Thinking Skills - Credits: 6

- INDP 317 - Statistics for the Social Sciences Credits: 3
- INDP 318 - Research Methods in Interdisciplinary Studies Credits: 3

Experiential Learning Activities

Must complete 40 hours of experiential learning activities which are approved by the Academic Advisor. Please consult with your Advisor for details of the options available.

Emphasis Area - Credits: 24

General Sociology concentration select by advisement. Applied Sociology interest areas for Medical Sociology and Public Sociology selected by advisement.

Minor in Anthropology

Department of Professional Studies

Requirements for the Minor in Anthropology - Credits: 18

Required Courses - Credits: 15

- INDP 202 - Introduction to Anthropology Credits: 3
- INDP 211 - Biological Anthropology Credits: 3
- INDP 212 - Archaeology/World Prehistory Credits: 3
- INDP 319 - Anthropology Methods Credits: 3
- INDP 401 - Applied Anthropology Credits: 3

And One of the Following - Credits: 3

- GES 303 - Asia Credits: 3
- GES 308 - Europe Credits: 3
- GES 309 - Africa Credits: 3
- INDP 310 - Cultural Area Studies Credits: 3

Minor in Cognitive Science

Minor Requirements - Credits: 18

Core Courses - Credits: 9

One course from each of the following areas:

Oral and Written Communication - Credits: 3

- INDP 144 - Introduction to Cognitive Studies Credits: 3
- INDP 215 - Introduction to Consciousness Credits: 3

Interpersonal Skills and Civic Responsibility - Credits: 3

- INDP 244 - Artificial Intelligence in Cognitive Studies and Film Credits: 3
- INDP 315 - Mindfulness and the Brain Credits: 3
- INDP 344 - Left and Right Brain: From Neuron to Culture Credits: 3

Analytical, Quantitative & Critical Thinking Skills - Credits: 3

- INDP 317 - Statistics for the Social Sciences Credits: 3
- INDP 318 - Research Methods in Interdisciplinary Studies Credits: 3
- INDP 456 - Research in Cognitive Science Credits: 3

Emphasis Area - Credits: 9

9 credits from the areas below. Students must take at least one course from each area.

A. Mind and Brain - Credits: 3

- BIOL 102 - Human Biology Credits: 3

- INDP 202 - Introduction to Anthropology Credits: 3
- INDP 211 - Biological Anthropology Credits: 3
- INDP 315 - Mindfulness and the Brain Credits: 3
- INDP 344 - Left and Right Brain: From Neuron to Culture Credits: 3
- PHIL 351 - Philosophy of Natural Science Credits: 3

B. Intelligence, Perception and Technology - Credits: 3

- CPSC 130 - Introduction to Computing and Programming Credits: 3
- CPSC 146 - Programming Principles Credits: 3
- CPSC 300 - Challenges of Computer Technology Credits: 3
- ENGL 230 - Introduction to Linguistics and Grammar Credits: 3
- INDP 244 - Artificial Intelligence in Cognitive Studies and Film Credits: 3
- PHIL 113 - Formal Logic Credits: 3

C. Consciousness, Self and Others - Credits: 3

- COMM 217 - Intercultural Communication Credits: 3
- COMM 314 - Interpersonal Communication Credits: 3
- INDP 215 - Introduction to Consciousness Credits: 3
- INDP 326 - Society, Culture and Self Credits: 3
- INDP 327 - Religion and Society Credits: 3
- INDP 350 - Multicultural Leadership Credits: 3
- INDP 352 - Self Leadership Credits: 3
- PHIL 123 - Ethics Credits: 3
- PHIL 343 - Asian Philosophy Credits: 3

Minor in Leadership

As an outcomes based minor, the listing provided is indicative and not exhaustive. Overall selection of appropriate courses should be taken as a whole and carefully reviewed to meet the outcomes of the Leadership minor. As such, some courses may be appropriate in multiple components; however, no course may be used to satisfy more than one component of the minor.

Minor Requirements - Credits: 18

- 9 major credits must be taken at SRU or PASSHE
- 9 major credits must be taken at the 300 level or above (Advisor approved courses)

Core Courses - Credits: 9

At least 3 credits in each of the following areas:

Oral and Written Communication - Credits: 3

- INDP 251 - Leadership Theory Credits: 3

- MS 102 - Principles of Leadership Credits: 3
- MS 301 - Fundamentals of Tactical Operations Credits: 4

Interpersonal Skills and Civic Responsibility - Credits: 3

- INDP 350 - Multicultural Leadership Credits: 3
- INDP 352 - Self Leadership Credits: 3
- INDP 353 - Teambuilding for Leaders Credits: 3
- MS 201 - Basic Military Skills Credits: 3

Analytical, Quantitative & Critical Thinking Skills - Credits: 3

- INDP 252 - Leadership Practicum Credits: 3
- INDP 317 - Statistics for the Social Sciences Credits: 3
- INDP 318 - Research Methods in Interdisciplinary Studies Credits: 3
- MS 302 - Advanced Military Skills Credits: 4

Emphasis Area - Credits: 9

9 credits from the categories below. Students must take at least one course in each area.

A: Self Leadership - Credits: 3

- COMM 314 - Interpersonal Communication Credits: 3
- CSS 354 - Risk Assessment and Fraud Credits: 3
- INDP 305 - Financial Best Practice for Decision Makers Credits: 3
- INDP 215 - Introduction to Consciousness Credits: 3
- INDP 326 - Society, Culture and Self Credits: 3
- INDP 352 - Self Leadership Credits: 3
- PHIL 123 - Ethics Credits: 3
- MS 201 - Basic Military Skills Credits: 3
- MS 202 - Intermediate Military Skills Credits: 3

B: Group Leadership - Credits: 3

- COMM 215 - Small Group Communication Credits: 3
- INDP 310 - Cultural Area Studies Credits: 3
- INDP 321 - Minority Groups Credits: 3
- INDP 339 - Gender Roles and Society Credits: 3
- INDP 353 - Teambuilding for Leaders Credits: 3
- INDP 344 - Left and Right Brain: From Neuron to Culture Credits: 3
- INDP 350 - Multicultural Leadership Credits: 3
- PCRM 342 - Group Facilitation and Leadership Credits: 3
- MGMT 351 - Organizational Behavior Credits: 3
- MS 301 - Fundamentals of Tactical Operations Credits: 4
- MS 302 - Advanced Military Skills Credits: 4

C: Organizational Leadership - Credits: 3

- COMM 217 - Intercultural Communication Credits: 3
- COMM 315 - Organizational Communication Credits: 3
- CSS 352 - Law and Ethics in the Workplace Credits: 3
- INDP 120 - Civic Engagement and Community Decision-Making Credits: 3
- INDP 348 - Sociology of Organizations Credits: 3
- INDP 354 - Strategic Planning and Decision Making for Leaders Credits: 3
- MGMT 341 - Organizational Leadership Credits: 3
- MS 401 - Leadership Dimensions and Concepts Credits: 4
- MS 402 - Officership and the Profession of Arms Credits: 4

D: Leadership Experience - Credits: 3

- INDP 252 - Leadership Practicum Credits: 3
- INDP 355 - Leadership Development Course Credits: 3
- INDP 450 - Internship Credits: 1 to 12
- MS 250 - ROTC Basic Leadership Practicum Credits: 3
- MS 350 - ROTC Advanced Leadership Practicum Credits: 3

Minor in Philanthropy and Nonprofit Management

Department of Interdisciplinary Programs

The minor in philanthropy and nonprofit management is intended to be useful to those students who may choose to either follow a career path or a personal goal of working within a nonprofit, nongovernmental organizational context. These courses prepare students to meet professional demands of the nonprofit sector.

Required Courses - Credits: 18

- INDP 305 - Financial Best Practice for Decision Makers Credits: 3
- INDP 220 - Introduction to Nonprofit Management Credits: 3
- INDP 320 - Community Change and Development Credits: 3
- INDP 325 - Social and Ethical Issues in Philanthropy and Fundraising Credits: 3
- INDP 450 - Internship Credits: 1 to 12 CREDITS: 3

And one of the following

- CDEV 248 - Human Development and Education Credits: 3
OR
- INDP 106 - Race and Ethnic Diversity in the USA Credits: 3
OR
- INDP 120 - Civic Engagement and Community Decision-Making Credits: 3

Minor in Sociology

Department of Interdisciplinary Studies

Requirements for the Minor - Credits: 18

Core Courses - Credits: 12

- INDP 201 - Principles of Sociology Credits: 3
- INDP 106 - Race and Ethnic Diversity in the USA Credits: 3
- INDP 304 - Urban Sociology Credits: 3
- INDP 317 - Statistics for the Social Sciences Credits: 3

Electives - Credits: 6

Select any two courses from the list below:

- INDP 226 - Population and Society Credits: 3
- INDP 309 - Health and Society Credits: 3
- INDP 321 - Minority Groups Credits: 3
- INDP 324 - The Family Credits: 3
- INDP 339 - Gender Roles and Society Credits: 3

Modern Languages and Cultures

218 Spotts World Culture Building
724-738-2062

Modern Languages and Cultures

The department's mission is to prepare students for the challenges of an increasingly interconnected world. Our main goal is to enable the acquisition of world languages other than English for SRU students. We aim to educate world citizens who will acquire linguistic skills through an intellectual process that takes into account the perspective of the target culture. Our mission thus supports the vision statement of Slippery Rock University which encourages us to excel as a caring community of lifelong learners connecting with the world.

Chair

Adelaida Cortijo

Secretary

Deb Kosciuszko

Faculty

Ana Maria Caula, Adelaida Cortijo, Gisela Dieter, Yukako Ishimaru, Marnie Jo Petray

"I can honestly say that without such a caring and hardworking department, I would not be where I am today. Living and working in France having the time of my life. The department provided me with many experiences, both on campus and off, that I will never forget." Katie L. Snedecker, BA French 2004

"I feel very knowledgeable and competent as a future teacher thanks to the wonderful guidance and instruction that I received from my foreign language professors and the educational department. I am proud that I will be able to take my SRU education and use it to make a difference in the future." Regina Jeanette, BSED Spanish 2005

"Thanks to the amazing MLC staff, I learned how to speak two other languages and I'm now using both of them working and studying abroad!" Vincent Celender, BA French 2005

The study of modern languages will develop your linguistic skills, prepare you to better understand the culture or cultures associated with them and generally broaden your horizons. The greater intellectual curiosity that you will acquire and the ability to express yourself in another language will prepare you for the challenges of the global age we live in.

As a student of modern languages, you should look forward to a world of career fields, some of which include business, government, journalism, education, healthcare, interpreting or translating. You are strongly encouraged to discuss your career goals with your advisor or the department chairperson. Interested students are able to participate in the French Club, the Arabic Club, the Japanese Club, or the Spanish Club.

Students with previous language experience must take an appropriate modern language placement test to determine course eligibility. Students who wish to receive academic credit for previous experience must take the appropriate CLEP examination administered by the university. The CLEP examination must be taken before enrollment in foreign language courses and for freshmen within the first few weeks of the semester.

Arabic, Chinese, French, Japanese, Korean, and Spanish 101, 102, and 103 satisfy the liberal arts language requirement for the Bachelor of Arts degree in any discipline as well as the liberal arts goal and enrichment requirements in the global community area.

Certificate in Hispanic Serving Nonprofit Organizations

Required Courses - Credits: 15

- SPAN 103 - Spanish Language & Culture III Credits: 3
- SPAN 215 - Topics in Hispanic Culture Credits: 3
- INDP 120 - Civic Engagement and Community Decision-Making Credits: 3
- INDP 220 - Introduction to Nonprofit Management Credits: 3
- INDP 320 - Community Change and Development Credits: 3

Certificate in Japanese Studies

The program is designed to enhance students' knowledge of the Japanese language and culture that represents one of the Asian minority groups in the United States through a multidisciplinary perspective.

Certificate in Japanese Studies - Credits: 15

Required Course - Credits: 9

- JAPN 101 - Japanese Language and Culture I Credits: 3
- JAPN 102 - Japanese Language and Culture II Credits: 3
- JAPN 103 - Japanese Language and Culture III Credits: 3

Note: If a student has tested out of their core JAPN requirements, a total of 9 JAPN credits must still be successfully passed. The student may then choose from:

- JAPN 202 - Intermediate Japanese I
- JAPN 215 - Topics in Japanese Culture
- MODL 105 - Introduction to Asian Civilization

Choose 6 credits from one of the following three groups:

Political Emphasis - Credits: 6

- JAPN 215 - Topics in Japanese Culture Credits: 3
- Additional courses TBD - contact the department with any questions.

Historical Emphasis - Credits: 6

- HIST 376 - Modern Japan Credits: 3
- HIST 381 - East Asian Military Traditions Credits: 3
- HIST 382 - Modern Asian Pacific Rim Credits: 3
- JAPN 215 - Topics in Japanese Culture Credits: 3

Cultural and Literary Emphasis - Credits: 6

- ENGL 248 - Asian Literature Credits: 3
 - ENGL 316 - Asian Film Credits: 3
 - ENGL 402 - World Literature Credits: 3 (by advisement)
 - JAPN 215 - Topics in Japanese Culture Credits: 3
 - INDP 310 - Cultural Area Studies Credits: 3 - Samurai Culture through Film
- OR
- INDP 310 - Pre-Modern East Asia
 - INDP 360 - Women in Asian Societies Credits: 3
 - PHIL 140 - World Religions Credits: 3 (by advisement)

Certificate in Latin American Studies

Modern Languages & Cultures Department

For BA and BSED Spanish majors only

The Certificate in Latin American Studies (LAS) is a specialized program in the area of Latin American Studies housed in the Department of Modern Languages and Cultures. The program is designed to enhance students' knowledge of the

language and culture that represents the largest minority group in the United States through a multidisciplinary perspective. In order to complete the program students will take courses in the area of Latin American Studies from the departments of Dance, English, Geography, Geology & The Environment and Modern Languages and Cultures.

Requirements for the Letter of Completion - Credits: 15

Core Courses

Exemption is possible from the core courses according to performance on the placement test. CLEP, AP and OPI credits are accepted.

- SPAN 101 - Spanish Language & Culture I Credits: 3
- SPAN 102 - Spanish Language & Culture II Credits: 3
- SPAN 103 - Spanish Language & Culture III Credits: 3
- SPAN 201 - Spanish Conversation I Credits: 3
- SPAN 220 - Reading in Spanish Credits: 3

Civilization Required Courses - Credits: 6

Select two of the following courses:

- SPAN 307 - U.S. Latino Cultures Credits: 3
- SPAN 326 - The Civilization of Spanish America: Precolumbian to 19th Century Credits: 3
- SPAN 328 - Latin America Today Credits: 3

Literature Required Courses - Credits: 6

Select two of the following courses:

- ENGL 246 - U.S. Latino / a Literatures Credits: 3
- SPAN 332 - Spanish American Literature - 19th Century to Present Credits: 3
- SPAN 432 - Exploring Latin American Cultures through Media Credits: 3

Electives - Credits: 3

Select at least one of the following courses:

- GES 201 - Latin America and the Caribbean Credits: 3
- HIST 351 - Latin America to 1830 Credits: 3
- HIST 352 - Latin America Since 1830 Credits: 3

Certificate in Middle Eastern Studies

This program is designed to enhance students' knowledge of the language and culture that represents the Middle Eastern Cultures in the United States through a multidisciplinary perspective.

Certificate in Middle Eastern Studies - Credits: 15

Required Course - Credits: 9

- ARAB 101 - Arabic Language and Culture I Credits: 3
- ARAB 102 - Arabic Language and Culture II Credits: 3
- ARAB 103 - Arabic Language and Culture III Credits: 3

Electives - Credits: 6

- ARAB 202 - Intermediate Arabic 1 Credits: 3
- ARAB 215 - Topics in Arabic Culture Credits: 3
- HIST 380 - Egyptology Credits: 3
- HIST 370 - History and the Bible Credits: 3
- HIST 371 - History of Jews Credits: 3
- HIST 462 - The Contemporary Middle East Credits: 3
- HIST 463 - Israel - History, State, and Society Credits: 3
- INDP 310 - Cultural Area Studies Credits: 3 - Middle East
- INDP 317 - Statistics for the Social Sciences Credits: 3
- INDP 318 - Research Methods in Interdisciplinary Studies Credits: 3
- PHIL 140 - World Religions Credits: 3
- POLS 350 - Transnational Terrorism Credits: 3
- HSS 441 - Terrorism Law & National Security Credits: 3

French (BA)

Modern Languages & Cultures

The study of French language and culture is a passport to the past, the present, and the future. With it the student can go back in time to the dawn of French civilization and follow its development from before the Gallo-Roman period through the Middle Ages, with the flowering of the great cathedrals, into the Renaissance graced by its many chateaux, and on to the glories of imperial France under Louis XIV. Armed with knowledge of French, the student will better understand also the Enlightenment, whose numerous great French philosophers carved out the principle of both the American and the French revolutions. The developments which followed brought today's democracies into being. French is a principal language in 43 countries many of them in key regions in the world.

Majors obtain jobs in teaching, health and human services professions, international business and business-related professions, communication, and technology-related fields.

Students with previous French language experience must take the modern languages placement test to determine course eligibility. Students desiring to receive academic credit for previous experience must take the appropriate CLEP examination administered by the university. The CLEP examination must be taken before enrollment in foreign language courses for freshmen within the first few weeks of the semester.

Requirements for the Major - Credits: 30

Major Prerequisite Courses or Equivalent

Exemption is possible from these courses according to performance on the placement test. CLEP, AP and OPI credits are accepted.

- FREN 101 - French Language and Culture I Credits: 3
- FREN 102 - French Language and Culture II Credits: 3

Basic Skills Courses - Credits: 9

Note: Exemption is possible from these courses according to performance in the department placement exam, AP - Credits or CLEP - Credits. Native or Heritage speakers should consult the Department of Modern Languages and Cultures.

- FREN 103 - French Language and Culture III Credits: 3
- FREN 201 - French Conversation 1 Credits: 3
- FREN 220 - Reading in French Credits: 3

Required Courses - Credits: 12

- FREN 300 - French Grammar and Composition 1 Credits: 3
- FREN 330 - French Literature from the 18th Century to the Present Credits: 3
- FREN 350 - French Linguistics and Phonetics Credits: 3
- FREN 400 - French Grammar and Composition 2 Credits: 3

One of the following literature courses - Credits: 3

- FREN 404 - Exploring French Culture through Media Credits: 3
- FREN 430 - French Literature 12th to 17th Century Credits: 3

One of the following civilization courses - Credits: 3

- FREN 305 - France through the Ages Credits: 3
- FREN 306 - France and Francophone Identities Today Credits: 3

One of the following conversation courses - Credits: 3

- FREN 301 - French Conversation 2 Credits: 3
- FREN 401 - French Conversation 3 Credits: 3

Electives: Credits 0-9

Any 300 or 400 level French course may be chosen as an elective.

Note:

6 - 9 Credits of any 300- or 400- level French course may be chosen as electives except any French course taught in English. Choose as many electives as necessary to reach 30 hours of courses in French.

Minor in Arabic

REQUIREMENTS FOR THE MINOR - CREDITS: 18

Eighteen credits total consisting of 6 courses, all of which are taught in the target language, Arabic.

REQUIRED ARABIC COURSES - CREDITS: 12

- ARAB 101 - Arabic Language and Culture I Credits: 3
- ARAB 102 - Arabic Language and Culture II Credits: 3
- ARAB 103 - Arabic Language and Culture III Credits: 3
- ARAB 202 - Intermediate Arabic 1 Credits: 3

CHOOSE TWO COURSES FROM THE FOLLOWING - CREDITS: 6

- ARAB 300 - Reading & Writing in Arabic Credits: 3
- ARAB 301 - Arabic Conversation I Credits: 3
- ARAB 315 - Arabic Study Abroad Credits: 3

Minor in Asian Studies

Asian Studies

Coordinator

George Brown, SWC 112-G, (724) 738-2435, george.brown@sru.edu

Advisor

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Faculty

Kundan Bhatia, George Brown, Xianfeng Chen, Andrew Colvin, Margaret Denning, Srinivasa Mani, Alison McNeal, J. Sunita Peacock, Armand Policicchio, Li Pu, Jialing Wang, Junko Yamamoto, and visiting professors from China, India, Japan, and Korea.

The Asian Studies minor offers students the opportunity to gain a working knowledge of the countries East Asia, Southeast Asia, and South Asia. About forty percent of the people residing on the globe live in Asia, including China, and India, the two most populous countries in the world. Asia also contains the most rapidly industrializing and fastest growing economies in the world: by 2050 China will be the world's largest economy, Japan will be among the top five global economies, and India will also take its place as one of the greatest economic powers of the century. Asia is important as well because it is home to several of the world's core civilizations with distinctive cultures, well developed social institutions, highly developed religious and philosophical traditions, rich and complex languages and literatures, and artistic and architectural traditions that go back in continuously evolving lines for over thirty centuries. Asia is also important politically; it is a place of dynamic political change and unresolved political conflicts with enormous consequence for the United States (North and South Korea, China and Taiwan, India and Pakistan, China and Japan, etc.). The Asian Studies minor provides a valuable focus for majors in many fields. Business majors will find a minor in East Asian Studies particularly attractive to future employers who are already doing business in the region or who

wish to begin trade there. Future teachers and social workers as well as health and fitness professionals will find the background useful in their work with the increasing Asian population in the United States (Asians and Pacific Islanders are the fastest growing minority in America). Students with majors in the humanities and social sciences will find the minor a valuable balance to the largely Western content and methodologies that characterize their fields of study. Future teachers and social workers as well as health and fitness professionals will find the background useful in their work with the increasing Asian population in the United States. (Asian and Pacific Islanders are the fastest growing minority in America.) The Asian Studies Minor offers language training and exchange opportunities that will enable students to live and work successfully in a global society.

Requirements for the Minor - Credits: 21

Students are required to earn 21 credits from the courses below, including 9 credits from Asian Languages and 9 credits from AS Core Courses. All students are encouraged to take Introduction to Asian Civilizations (MODL 105) or equivalent course approved by the Asian Studies Advisor. At least 6 credits other than languages must be at the 300 level and above.

Required Course - Credits: 3

- MODL 105 - Introduction to Asian Civilizations Credits: 3

Core Courses in Asian Studies - Credits: 9

- ENGL 248 - Asian Literature Credits: 3
- ENGL 316 - Asian Film Credits: 3
- GES 303 - Asia Credits: 3
- HIST 376 - Modern Japan Credits: 3
- HIST 381 - East Asian Military Traditions Credits: 3
- HIST 382 - Modern Asian Pacific Rim Credits: 3
- HIST 386 - Modern China Credits: 3
- PHIL 343 - Asian Philosophy Credits: 3
- INDP 310 - Cultural Area Studies Credits: 3
Asian Topics Only
- INDP 360 - Women in Asian Societies Credits: 3

Asian Languages and Cultures - Credits: 9

- CHIN 101 - Chinese Language and Culture I Credits: 3
- CHIN 102 - Chinese Language and Culture II Credits: 3
- CHIN 103 - Chinese Language and Culture III Credits: 3
- CHIN 202 - Intermediate Chinese I Credits: 3

Or

- JAPN 101 - Japanese Language and Culture I Credits: 3
- JAPN 102 - Japanese Language and Culture II Credits: 3
- JAPN 103 - Japanese Language and Culture III Credits: 3
- JAPN 202 - Intermediate Japanese I Credits: 3

Or

- KORN 101 - Korean Language and Culture I Credits: 3
- KORN 102 - Korean Language and Culture II Credits: 3
- KORN 103 - Korean Language and Culture III Credits: 3
- KORN 202 - Intermediate Korean I Credits: 3

Supplemental Asian Studies Courses

(Any two of these is equivalent to one full course credit for the minor).

- ENGL 104 - Critical Reading Credits: 3
by advisement
- ENGL 402 - World Literature Credits: 3
by advisement
- PHIL 140 - World Religions Credits: 3
- POLS 369 - Politics of Developing Areas Credits: 3
by advisement
- INDP 202 - Introduction to Anthropology Credits: 3
by advisement

Minor in French

Modern Languages & Cultures Department

Requirements for the Minor - Credits: 18

Eighteen credits of French courses above the 101 level, including a minimum of two 300 or 400 level courses.

Required French Courses - Credits: 12

- FREN 102 - French Language and Culture II Credits: 3
- FREN 103 - French Language and Culture III Credits: 3
- FREN 201 - French Conversation 1 Credits: 3
- FREN 220 - Reading in French Credits: 3

Choose two courses at the 300/400 level - Credits: 6

Students need to choose two courses at the 300 or 400 level for a total of 6 credits

Minor in French Professional

Minor Requirements - Credits: 18

Required French Courses - Credits: 15

- FREN 102 - French Language and Culture II Credits: 3
- FREN 103 - French Language and Culture III Credits: 3
- FREN 201 - French Conversation 1 Credits: 3
- FREN 220 - Reading in French Credits: 3
- FREN 303 - Professional French Credits: 3

Choose one (or more) of the following to reach 18 FREN credits

- FREN 300 - French Grammar and Composition 1 Credits: 3
- FREN 301 - French Conversation 2 Credits: 3
- FREN 350 - French Linguistics and Phonetics Credits: 3

Minor in German

Modern Languages & Cultures Department

Credits: 18

Required Courses - Credits: 12

- GERM 102 - German Language and Culture II Credits: 3
- GERM 103 - German Language and Culture III Credits: 3
- GERM 201 - Communication in German Credits: 3
- GERM 220 - Reading in German Credits: 3

Two German courses at the 300 or 400 level - Credits: 6

Minor in Professional Japanese

Minor Requirements - Credits: 18

Required Japanese Courses - Credits: 15

- JAPN 101 - Japanese Language and Culture I Credits: 3
- JAPN 102 - Japanese Language and Culture II Credits: 3
- JAPN 103 - Japanese Language and Culture III Credits: 3
- JAPN 202 - Intermediate Japanese I Credits: 3
- JAPN 303 - Professional Japanese Credits: 3

Choose one (or more) of the following Japanese courses to reach -
Credits: 18

- JAPN 300 - Reading & Writing Japanese Credits: 3
- JAPN 315 - Japanese Study Abroad Credits: 3

Minor in Professional Spanish

Modern Languages & Cultures Department

Requirements for the Minor - Credits: 18

Any additional credits necessary to reach 18 hours if beginning courses were exempt.

Required Spanish Courses - Credits: 15

Based on the Placement Test administered by the Department of Modern Languages and Cultures, a student may exempt any or all of the courses at the 100 and 200 levels.

- [SPAN 103 - Spanish Language & Culture III Credits: 3
OR
- SPAN 104 - Situational Spanish Credits: 3]
- SPAN 200 - Spanish Grammar and Composition I Credits: 3
- SPAN 201 - Spanish Conversation I Credits: 3
- SPAN 220 - Reading in Spanish Credits: 3
- [SPAN 302 - Communication in Spanish for the Elementary Classroom Credits: 3
OR
- SPAN 303 - Professional Spanish Credits: 3]

Spanish Electives - Credits: 3

Choose one of the following courses:

- SPAN 300 - Spanish Grammar and Composition II Credits: 3
- SPAN 301 - Spanish Conversation II Credits: 3
- SPAN 305 - Spain Today Credits: 3
- SPAN 307 - U.S. Latino Cultures Credits: 3
- SPAN 309 - Hispanic Civilization for the K-12 Classroom Credits: 3
- SPAN 318 - Hispanic Children's Literature for the K-12 Classroom Credits: 3
- SPAN 328 - Latin America Today Credits: 3
- SPAN 330 - Spanish Literature 1800 to Present Credits: 3
- SPAN 332 - Spanish American Literature - 19th Century to Present Credits: 3
- SPAN 340 - Introduction to Translation I Credits: 3
- SPAN 350 - Spanish Linguistics and Phonetics Credits: 3
- SPAN 400 - Spanish Grammar and Composition III Credits: 3
- SPAN 401 - Spanish Conversation III Credits: 3
- SPAN 431 - Exploring Spanish Culture through Media Credits: 3
- SPAN 432 - Exploring Latin American Cultures through Media Credits: 3

- SEFE 323 - Teaching World Languages Credits: 3

Minor in Russian

Modern Languages & Cultures Department

Requirements for the Minor - Credits: 18

- RUSS 101 - Russian Language and Culture I Credits: 3
- RUSS 102 - Russian Language and Culture II Credits: 3
- RUSS 103 - Russian Language and Culture III Credits: 3
- RUSS 202 - Intermediate Russian I Credits: 3
- RUSS 305 - Russian Civilization via Film Credits: 3
- RUSS 306 - The Challenge of Russian Legacy Credits: 3

Minor in Spanish

Modern Languages & Cultures Department

Requirements for the Minor - Credits: 18

Required Spanish Courses - Credits: 12

- SPAN 103 - Spanish Language & Culture III Credits: 3
- SPAN 200 - Spanish Grammar and Composition I Credits: 3
- SPAN 201 - Spanish Conversation I Credits: 3
- SPAN 220 - Reading in Spanish Credits: 3

Courses at 300/400 Level - Credits: 6

Two courses required at the SPAN 300 and/or 400 level

Additional Spanish Courses

Additional Spanish courses to equal 18 credits in the minor. Students may take any Spanish course except SPAN 101, 102, 104, 210.

Modern Languages and Cultures (BA) - Concentration in Professional French

Modern Languages & Cultures Department

Requirements for the Major - Credits: 30

Major Prerequisite Courses or Equivalent

Exemption is possible from this course according to performance on the placement test. CLEP, AP, and OPI credits are accepted.

- FREN 101 - French Language and Culture I Credits: 3

Basic Skills Courses - Credits: 12

Exemption is possible from these courses according to performance on the placement test. CLEP, AP and OPI credits are accepted for some of the following courses.

- FREN 102 - French Language and Culture II Credits: 3
- FREN 103 - French Language and Culture III Credits: 3
- FREN 201 - French Conversation 1 Credits: 3
- FREN 220 - Reading in French Credits: 3

Required Courses - Credits: 12

- FREN 300 - French Grammar and Composition 1 Credits: 3
- FREN 303 - Professional French Credits: 3
- FREN 350 - French Linguistics and Phonetics Credits: 3
- FREN 400 - French Grammar and Composition 2 Credits: 3

One of the following civilization courses - Credits: 3

- FREN 305 - France through the Ages Credits: 3
- FREN 306 - France and Francophone Identities Today Credits: 3

One of the following conversation courses - Credits: 3

- FREN 301 - French Conversation 2 Credits: 3
- FREN 401 - French Conversation 3 Credits: 3

Electives: Credits 0-12

Choose electives to complete 30 credits for the major. Any 300 or 400 level French course may be chosen as an elective, including the conversation or civilization courses not chosen above.

Minor or Major or Certificate in a Selected Field

Students pursuing a BA in French, Professional Track must also complete a minor or second major in any other discipline or certificate (30 credits) in any other discipline outside the MLC

Department. The selected minor or major or certificate must be approved by the student's MLC adviser and by the Chair of the MLC Department.

Non-Credit Requirement

Student must complete a Capstone Experience:

Capstone: Students' research must be conducted in their minor area or second major and the final product will be a written paper and an oral presentation in the French language.

Students can choose from three (3) options to complete the Capstone Experience requirement: Internship Presentation, Study Abroad Presentation or Research Presentation, depending on their area of interest.

The Internship Experience must be approved by the Modern Language chair and the student's advisor in Modern Languages.

Modern Languages and Cultures (BA) - Concentration in Professional Spanish

Modern Languages & Cultures Department

This program is designed for students who prefer the flexibility of a liberal arts program while studying the international market. Such a student may decide to enter an MBA program designed specifically for the liberal arts language major.

Requirements for the Major - Credits: 30

Major Prerequisite Courses or Equivalent

Exemption is possible from these courses according to performance on the placement test. CLEP, AP and OPI credits are accepted.

- SPAN 101 - Spanish Language & Culture I Credits: 3
- SPAN 102 - Spanish Language & Culture II Credits: 3
- SPAN 103 - Spanish Language & Culture III Credits: 3

Basic Skills Courses - Credits: 9

Exemption is possible from these courses according to performance on the placement test. CLEP, AP and OPI credits are accepted for some of the following courses.

- SPAN 200 - Spanish Grammar and Composition I Credits: 3
- SPAN 201 - Spanish Conversation I Credits: 3
- SPAN 220 - Reading in Spanish Credits: 3

Required Spanish Courses - Credits: 18

- SPAN 300 - Spanish Grammar and Composition II Credits: 3
- SPAN 301 - Spanish Conversation II Credits: 3
- SPAN 303 - Professional Spanish Credits: 3
- SPAN 340 - Introduction to Translation I Credits: 3
- SPAN 400 - Spanish Grammar and Composition III Credits: 3
- SPAN 401 - Spanish Conversation III Credits: 3

Literature and Culture Courses - Credits: 3

- SPAN 302 - Communication in Spanish for the Elementary Classroom Credits: 3
- SPAN 305 - Spain Today Credits: 3
- SPAN 307 - U.S. Latino Cultures Credits: 3
- SPAN 309 - Hispanic Civilization for the K-12 Classroom Credits: 3
- SPAN 318 - Hispanic Children's Literature for the K-12 Classroom Credits: 3
- SPAN 326 - The Civilization of Spanish America: Precolumbian to 19th Century Credits: 3
- SPAN 328 - Latin America Today Credits: 3
- SPAN 330 - Spanish Literature 1800 to Present Credits: 3
- SPAN 332 - Spanish American Literature - 19th Century to Present Credits: 3
- SPAN 350 - Spanish Linguistics and Phonetics Credits: 3
- SPAN 431 - Exploring Spanish Culture through Media Credits: 3
- SPAN 432 - Exploring Latin American Cultures through Media Credits: 3

Spanish Electives - Credits: 0-9

Students may choose up to 9 credits of Spanish electives at the 300 level and above, except for SPAN 302, 309 or 335

Minor or Major or Certificate in a Selected Field

Students pursuing a BA in Spanish, Professional Track must also complete a minor or second major in any other discipline or certificate (30 credits) in any other discipline outside the MLC Department. The selected minor or major or certificate must be approved by the student's MLC adviser and by the Chair of the MLC Department.

Non-Credit Requirement

Student must complete a Capstone Experience:

Capstone: Students' research must be conducted in their minor area or second major and the final product will be a written paper and an oral presentation using the Spanish language.

Students can choose from three (3) options to complete in the Capstone Experience requirement: Internship Presentation, Study Abroad or Research Presentation, depending on their area of interest.

The Internship Experience must be approved by the Modern Language chair and the student's advisor in Modern Languages.

Spanish (BA)

Modern Languages & Cultures Department

Why study Spanish? There are many substantive reasons, but an important one is that Hispanics are the fastest growing segment of the U.S. population. Therefore, the knowledge of Spanish is of value in all human services professions, as well as in many areas of business, especially since Latin America represents a large potential market. Because Spanish can become an invaluable skill in an occupation, many students choose to combine Spanish with another area as a double major or as a minor.

Students with previous language experience must take the modern language Spanish placement test to determine course eligibility. Students desiring to receive academic credit for previous experience must take the appropriate CLEP examination administered by the university. The CLEP examination must be taken before enrollment in world language courses and for freshmen within the first few weeks of the semester.

Spanish 101, 102, and 103 satisfy the liberal arts language requirement for the Bachelor of Arts degree in any discipline.

Requirements for the Major - Credits: 30

Major Prerequisite Courses or Equivalent

Exemption is possible from these courses according to performance on the placement test. CLEP, AP and OPI credits are accepted.

- SPAN 101 - Spanish Language & Culture I Credits: 3
- SPAN 102 - Spanish Language & Culture II Credits: 3
- SPAN 103 - Spanish Language & Culture III Credits: 3

Basic Skills Courses - Credits: 9

Exemption is possible from these courses according to performance in the department placement exam, AP - Credits or CLEP - Credits. Native or Heritage speakers should consult the Department of Modern Languages and Cultures.

- SPAN 200 - Spanish Grammar and Composition I Credits: 3
- SPAN 201 - Spanish Conversation I Credits: 3
- SPAN 220 - Reading in Spanish Credits: 3

Required Spanish Grammar Courses - Credits: 12

- SPAN 300 - Spanish Grammar and Composition II Credits: 3
- SPAN 301 - Spanish Conversation II Credits: 3
- SPAN 400 - Spanish Grammar and Composition III Credits: 3
- SPAN 401 - Spanish Conversation III Credits: 3

One of following civilization courses - Credits: 3

- SPAN 305 - Spain Today Credits: 3
- SPAN 307 - U.S. Latino Cultures Credits: 3
- SPAN 326 - The Civilization of Spanish America: Precolumbian to 19th Century Credits: 3
- SPAN 328 - Latin America Today Credits: 3

One of the following literature survey courses - Credits: 3

- SPAN 330 - Spanish Literature 1800 to Present Credits: 3
- SPAN 332 - Spanish American Literature - 19th Century to Present Credits: 3

One of the following literature courses - Credits: 3

- SPAN 431 - Exploring Spanish Culture through Media Credits: 3
- SPAN 432 - Exploring Latin American Cultures through Media Credits: 3

Electives: Credits 0-9

6 credits of any 300- or 400-level Spanish course may be chosen as electives except Spanish 302, 309 or any Spanish course taught in English. Choose as many electives as necessary to reach 30 hours of courses in Spanish.

Second Language

Students not pursuing a double major are strongly encouraged to complete the skills block in Chinese, French, German, Japanese, Korean, or Russian.

Second Language Minor

A minor in the second language may be earned by completing the courses indicated. For a French minor: 101, 102, 103, 201 and 220 and any two 300-level courses.

Study Abroad Program (highly recommended)

Students should plan to spend a summer or semester in a country where Spanish is spoken. Credits earned may be used to fill the above requirements.

Music

225 Swope Music Hall
724-738-2063

Music

The Slippery Rock University Department of Music is committed to providing learning experiences to meet the current and future needs of today's student. We recognize the unique power of music to express emotion, to teach, to foster communication, to access memories, to motivate, to initiate movement, and to provide enrichment for the community-

at-large. The department will provide an environment for serious study and musical performance as we prepare our students for successful careers in music education, music therapy, and performance.

Chair

Colleen Gray

Secretary

Laurel Patterson

Faculty

James Berry, Warren Davidson, Cassandra Eisenreich, David Glover, Colleen Gray, Susan Hadley, Nicole Hahna, Jonathan Helmick, Jason Kush, Kathleen Melago, Christopher Scott, Glenn Utsch

"The contract for my first job was signed and approved a month before I graduated because Slippery Rock University prepared me to teach, to learn, and to live as a competent, productive citizen. Five years later, I am happily and successfully teaching music and directing high school bands in the same school district."

Tonia Asel '95

Music Education/Performance Major

The Department of Music offers students the opportunity to focus their studies on education, therapy, performance, or a combination of these majors. Courses include study in applied music performance, music literature, music theory and composition, music education, music therapy and a variety of instrumental and vocal performing ensembles. Students electing courses in music will develop performance skills and interests and a greater perception of their musical heritage and environment. The music major may look forward to careers in private teaching, performance, music education, or music therapy.

Mu Phi Epsilon is an international, professional music fraternity that seeks to advance music in America and throughout the world, the promotion of musicianship and scholarship, loyalty to the Alma mater, and the development of true bonds of friendship. Election to Mu Phi Epsilon is based upon scholarship, musicianship, character and personality. Membership is offered to music majors and minors who are in their second semester and have attained specific standards in the above areas. The Delta Mu chapter at SRU, founded in 1994, sponsors concerts and provides many services within the music department.

Minor in Music

Music Department

Students may pursue a minor in music after passing an audition before the music faculty. The curriculum, determined through advisement, consists of 25 credits of music courses.

Requirements for the Minor in Music - Credits: 25

Music Theory - Credits: 6

- MUSI 151 - Music Theory and Analysis I Credits: 2
- MUSI 154 - Musicianship Skills I Credits: 1
- MUSI 253 - Music Theory and Analysis II Credits: 2

- MUSI 256 - Musicianship Skills II Credits: 1

Music History - Credits: 3

- MUSI 359 - History of Music I Credits: 3
OR
- MUSI 373 - History of Music II Credits: 3

Applied Lessons - Credits: 4

One half-hour each week. Any of the applied lessons approved during the student's audition.

Ensemble - Credits: 3

Three semesters; one credit each. An ensemble is selected according to a student's major applied area.

Electives - Credits: 6

Any music course numbered 300 or above. Prerequisites may be waived with permission from department chairperson.

- MUSI 300 - Marching Band Techniques Credits: 1
- MUSI 301 - Women and Music Credits: 3
- MUSI 332 - Vocal Conducting Credits: 1
- MUSI 333 - Instrumental Conducting Credits: 1
- MUSI 350 - Computer Technology in Music Credits: 2
- MUSI 360 - Keyboard Improvisation Credits: 1
- MUSI 361 - Instrumental Improvisation Credits: 1
- MUSI 473 - History of Music III Credits: 3

Free Elective - Credits: 3

Any music course in the music major series.

Music (BA)

Music Department

Total Degree Credits: 120

Requirements for the Major - Credits: 40

All prospective music majors must audition with a faculty committee from the Department of Music.

Required Music Courses - Credits: 25

- MUSI 151 - Music Theory and Analysis I Credits: 2
- MUSI 154 - Musicianship Skills I Credits: 1
- MUSI 203 - Musician's Health Credits: 1
- MUSI 206 - Fundamentals of Conducting Credits: 1
- MUSI 253 - Music Theory and Analysis II Credits: 2
- MUSI 254 - Music Theory and Analysis III Credits: 2
- MUSI 255 - Music Theory and Analysis IV Credits: 2
- MUSI 256 - Musicianship Skills II Credits: 1
- MUSI 257 - Musicianship Skills III Credits: 1
- MUSI 258 - Musicianship Skills IV Credits: 1
- MUSI 350 - Computer Technology in Music Credits: 2
- OR
- MUSI 351 - Arranging & Orchestration Credits: 2
- MUSI 359 - History of Music I Credits: 3
- MUSI 373 - History of Music II Credits: 3
- MUSI 473 - History of Music III Credits: 3

Major Applied Courses - Credits: 8

Students must earn a C or better in each semester of applied music major study. Four semesters must be at the 300+ level. Students must earn a C or better to move on to the next level.

See Curriculum Guide for further details regarding required coursework.

Large ensembles - Credits: 5

Four semesters must be at the 300+ level. The student must earn a "C" or better in each semester to satisfy this requirement.

Required Music Electives - Voice Majors Only - Credits: 4

- MUSI 299 - Diction for Singers I Credits: 1-2 (2 credits)
- MUSI 399 - Diction for Singers II Credits: 1-2 (2 credits)

Modern Language Requirement

All candidates for the bachelor of arts degree must demonstrate competency in a modern language at the 103 level through either coursework or placement tests.

Music Education (BM)

Music Department

The Department of Music offers an undergraduate program in music education which meets requirements for the National Association Schools of Music (NASM) and state certification in music, grades K-12. Prospective music teachers are required to take coursework that is balanced to offer a broad education, including courses in music, music performance, professional education, and liberal studies. Students are required to complete 40 contact hours in elementary and secondary music education settings during the freshman and sophomore years. The junior and senior years allow the students the opportunity to apply the philosophies, methodologies, and techniques that they have observed and discussed in classes. For four weeks during field experience and sixteen weeks of student teaching, students will observe, assist and teach in a public school setting.

Music Education students are encouraged to join the Pennsylvania Collegiate Music Educators Association (PCMEA). The PCMEA meets monthly, offers workshops and conferences and promotes pre-professional experiences for the music education major.

Requirements for acceptance to the Teacher Certification Programs during the sophomore or junior year may include but also exceed the following: completion of 48 credit hours; minimum GPA requirements for Basic Competency courses, music education program, and cumulative GPA; passing scores on Praxis exams; completion of 40 hours of observations in educational settings; evidence of professional conduct; criminal and child abuse background checks; and a TB test.

The guidelines on admission, professional conduct, and student teaching for this department include and may go beyond those required for the College of Education as a whole. Details are available in the Department of Music or from the student's advisor. See also the Programs for Certification of Professional School Personnel and the Teacher Education Policy Manual, available in 105 McKay Education Building.

The double majors, BM in Performance/BM in Music Education, the BM in Performance/BM in Music Therapy, the BM in Music Education/BM in Music Therapy are available for students who wish to pursue combined degrees. Please see Chairperson for the semester by semester schedule.

All candidates completing this program and student teaching are eligible to receive Pennsylvania Music pre K-12 Teacher Certification after achieving a passing or qualifying score on Pennsylvania Department of Education required exam(s). If you are interested in teaching in another state, please contact the Department of Education in that state.

Requirements for the Major - Credits: 87

All prospective music education majors must audition with a faculty committee of the Department of Music. Students who are following the Rock Integrated Studies Program should refer to their Curriculum Guide for requirements.

Required Music Courses - Credits: 59

Students must earn a "C" or higher in Musicianship Skills, Music Theory and Music Ed courses. **Voice majors - exempt from MUSI 133.**

- MUSI 111 - Introduction to Music Education Credits: 2
- MUSI 129 - Guitar Methods for Music Education Credits: 1-2 (2 credits)
- MUSI 133 - Class Voice Credits: 1 (Instrumental majors only)
- MUSI 140 - Low Brass Methods Credits: 2
- MUSI 151 - Music Theory and Analysis I Credits: 2
- MUSI 154 - Musicianship Skills I Credits: 1
- MUSI 203 - Musician's Health Credits: 1

- MUSI 206 - Fundamentals of Conducting Credits: 1
- MUSI 208 - Clarinet and Saxophone Methods Credits: 2
- MUSI 212 - Fundamentals of Conducting Lab Credits: 1
- MUSI 247 - Percussion Methods Credits: 1 (Spring 2021 this course will be 2 credits).
- MUSI 253 - Music Theory and Analysis II Credits: 2
- MUSI 254 - Music Theory and Analysis III Credits: 2
- MUSI 255 - Music Theory and Analysis IV Credits: 2
- MUSI 256 - Musicianship Skills II Credits: 1
- MUSI 257 - Musicianship Skills III Credits: 1
- MUSI 258 - Musicianship Skills IV Credits: 1
- MUSI 288 - Music Education for Diverse Learners Credits: 3
- MUSI 291 - Field Experience in Music 2: Pre-K Experience Credits: 1
- MUSI 300 - Marching Band Techniques Credits: 1 (Fall 2021 will be 2 credits)
- MUSI 304 - String Methods Credits: 1 (Fall 2021 will be 2 credits)
- MUSI 334 - Secondary School Music Credits: 2
- MUSI 335 - Elementary School Music Methods Credits: 2
- MUSI 336 - Instrumental Methods Credits: 2
- MUSI 337 - Instrumental Rehearsal Techniques Credits: 1
- MUSI 339 - Rehearsal Techniques Field Experience Credits: 1
- MUSI 353 - Music Methods Block Field Experience Credits: 1
- MUSI 354 - Integrated Music Methods Lab Credits: 1
- MUSI 359 - History of Music I Credits: 3
- MUSI 360 - Keyboard Improvisation Credits: 1
- or
- MUSI 361 - Instrumental Improvisation Credits: 1
- MUSI 373 - History of Music II Credits: 3
- MUSI 375 - Woodwind Methods Field Experience Credits: 1
- MUSI 376 - Flute, Oboe, & Bassoon Methods Credits: 2
- MUSI 377 - High Brass Methods Credits: 2
- MUSI 406 - Advanced Conducting Credits: 1 (Spring 2021 will be 2 credits)
- MUSI 407 - Choral Rehearsal Techniques Credits: 1

*Major Applied - Credits: 7

Must all be in same instrument. Students must earn a "C" or better in each semester of applied major study. Four credits at the 300+ level are required.

*Minor Applied - Credits: 4

Instrumental and voice majors only.

*Minor Applied - Credits: 4

Piano majors only. Students must earn a "C" or better in each semester of applied major study. Four credits at the 300+ level are required.

*Minor Applied - Credits: 2

Voice majors only. Students must earn a "C" or better in each semester of applied major study. Four credits at the 300+ level are required.

- MUSI 299 - Diction for Singers I Credits: 1-2
- MUSI 399 - Diction for Singers II Credits: 1-2

*Large Ensemble Participation - Credits 8-9

Professional Education - Credits: 24

Students who are following the Rock Integrated Studies Program will have these courses incorporated into the Rock Studies requirements.

- CDEV 248 - Human Development and Education Credits: 3
- SEFE 326 - ELL Strategies and Practice Credits: 3
- SEFE 342 - Educational Psychology for Diverse Learners Credits: 3
- SPED 121 - High Incidence Disabilities Credits: 3
- MUSI 455 - Student Teaching - Music Credits: 12

Footnote

* See chairperson of department of music for an explanation of these requirements.

Music Performance (BM)

Music Department

BM in Performance/Voice majors must take two semesters of one of the languages most often sung by classical singers: Italian, French or German; or pass a 102 level language proficiency exam.

Total Degree Credits: 120

Specialization: Performance

Requirements for Music (BM) - Credits: 78

Required Courses - Credits: 32

- MUSI 151 - Music Theory and Analysis I Credits: 2
- MUSI 154 - Musicianship Skills I Credits: 1
- MUSI 203 - Musician's Health Credits: 1
- MUSI 204 - Art and Science of Performing Credits: 1
- MUSI 206 - Fundamentals of Conducting Credits: 1
- MUSI 253 - Music Theory and Analysis II Credits: 2
- MUSI 254 - Music Theory and Analysis III Credits: 2

- MUSI 255 - Music Theory and Analysis IV Credits: 2
- MUSI 256 - Musicianship Skills II Credits: 1
- MUSI 257 - Musicianship Skills III Credits: 1
- MUSI 258 - Musicianship Skills IV Credits: 1
- MUSI 350 - Computer Technology in Music Credits: 2
- MUSI 351 - Arranging & Orchestration Credits: 2
- MUSI 359 - History of Music I Credits: 3
- MUSI 360 - Keyboard Improvisation Credits: 1
- or
- MUSI 361 - Instrumental Improvisation Credits: 1
- MUSI 373 - History of Music II Credits: 3
- MUSI 406 - Advanced Conducting Credits: 1 (2 credits in Spring 2021)
- MUSI 431 - Pedagogy Credits: 1
- MUSI 473 - History of Music III Credits: 3

Music Electives - Credits: 12

Select from the following. Additional course selections available. Please contact the Music Department or academic adviser.

- MUSI 128 - Applied Alexander Technique Credits: 1
- MUSI 133 - Class Voice Credits: 1
- MUSI 134 - Voice Methods Credits: 1
- MUSI 304 - String Methods Credits: 1
- MUSI 137 - Functional Guitar for Music Therapy I Credits: 1
- MUSI 138 - Functional Guitar for Music Therapy II Credits: 1
- MUSI 233 - Chamber Music Performance Credits: 1-2
- MUSI 237 - Opera Performance Credits: 1-4
- MUSI 245 - Brass Methods Credits: 1
- MUSI 374 - Woodwind Methods Credits: 1
- MUSI 247 - Percussion Methods Credits: 1
- MUSI 301 - Women and Music Credits: 3
- MUSI 360 - Keyboard Improvisation Credits: 1
- OR
- MUSI 361 - Instrumental Improvisation Credits: 1
- MUSI 389 - Applied Composition Credits: 1
- MUSI 391 - Applied Electronic Composition Credits: 1
- MUSI 499 - Applied Recital Credits: 1

* Applied Major - Credits: 24

* see footnote

* Applied Minor - Credits: 4

* see footnote

* **Applied Recital - Credits: 1**

* see footnote

* **Ensemble - Semesters: 8**

* see footnote

Footnote

* See chairperson of Department of Music for an explanation of these requirements.

Music Therapy (BM)

Music Department

Music therapy is a field that uses music along with the personality of the therapist as a treatment for rehabilitating, maintaining, and improving the lives of persons with physical, intellectual, and emotional disabilities. As a member of the therapeutic team, the music therapist participates in assessing problems, setting treatment goals, and planning and carrying out music experiences to meet these goals.

Career opportunities are available for music therapists in rehabilitation centers, hospitals, community mental health clinics, nursing homes, day care centers, and correctional facilities. Some music therapists establish their own private studios, usually working with clients referred by local health professionals. In addition, some public school systems are beginning to include music therapists in their special education programs.

Music therapy students can be involved in the campus Music Therapy Club, which promotes the profession, offers workshops for members and other interested students, and organizes service projects. Club members also participate in both the regional and national professional student organizations of the American Music Therapy Association. Through this involvement they have opportunities for leadership, scholarships, and participation at professional conferences.

Music therapy students have the opportunity to take field trips and observe music therapy clinical work in their freshman year. Six semesters of further clinical experience in a variety of community settings provide practical application of music therapy course work. A senior practicum course provides an opportunity to mentor and supervise beginning music therapy students in the clinical experience. A required six-month music therapy internship culminates the educational program with placement opportunities in approximately 150 clinical settings throughout the United States. Professional music therapists supervise the internship programs, which meet the training requirements of the American Music Therapy Association. Students may select an internship in settings such as hospitals, clinics, day care facilities, schools, community mental health centers, substance abuse facilities, nursing homes, hospice, rehabilitation centers, and correctional facilities. Several Slippery Rock University alumni have found employment at their internship facility.

The double majors, BM in Performance/BM in Music Education, the BM in Performance/BM in Music Therapy, the BM in Music Education/BM in Music Therapy are available for students who wish to pursue combined degrees. Please see Chairperson for the semester by semester schedule.

SRU's Music Therapy Program is approved by the American Music Therapy Association. Students completing this program are eligible to sit for the national board certification exam to obtain the Music Therapist- Board Certified (MT-BC) credential. Pennsylvania does not require state licensing; however, some states do require licensing for music therapists. In you are interested in practicing in another state, please contact the licensing board in that state.

Requirements for the Major - Credits: 83

All prospective music therapy majors must audition with a faculty committee of the Department of Music.

Required Music Courses - Credits: 33-35

Students must earn a 'C' or higher in Musicianship Skills and Music Theory courses and in Functional Guitar. **Voice majors - exempt from MUSI 133.**

- MUSI 133 - Class Voice Credits: 1
OR
- MUSI 299 - Diction for Singers I Credits: 1-2
- MUSI 134 - Voice Methods Credits: 1
- MUSI 137 - Functional Guitar for Music Therapy I Credits: 1
- MUSI 138 - Functional Guitar for Music Therapy II Credits: 1
- MUSI 151 - Music Theory and Analysis I Credits: 2
- MUSI 154 - Musicianship Skills I Credits: 1
- MUSI 206 - Fundamentals of Conducting Credits: 1
- MUSI 247 - Percussion Methods Credits: 1 (Spring 2021 1-2 credits)
- MUSI 253 - Music Theory and Analysis II Credits: 2
- MUSI 254 - Music Theory and Analysis III Credits: 2
- MUSI 255 - Music Theory and Analysis IV Credits: 2
- MUSI 256 - Musicianship Skills II Credits: 1
- MUSI 257 - Musicianship Skills III Credits: 1
- MUSI 258 - Musicianship Skills IV Credits: 1
- MUSI 350 - Computer Technology in Music Credits: 2
- MUSI 351 - Arranging & Orchestration Credits: 2
- MUSI 359 - History of Music I Credits: 3
- MUSI 360 - Keyboard Improvisation Credits: 1
- MUSI 361 - Instrumental Improvisation Credits: 1
- MUSI 373 - History of Music II Credits: 3
- MUSI 473 - History of Music III Credits: 3

Required Music Therapy Courses - Credits: 33-38

Students must earn a 'C' grade or higher in all music therapy courses.

- MUSI 127 - Orientation to Music Therapy Credits: 2
- MUSI 199 - Fundamental Skills in Music Therapy Credits: 2
- MUSI 228 - Therapeutic Musical Strategies Credits: 2
- MUSI 229 - Clinical Integration Credits: 0 or 1 (1 credit)
- MUSI 230 - Clinical Integration Credits: 0 or 1 (1 credit)
- MUSI 236 - Music Therapy Assessment, Measurement and Evaluation Credits: 2
- MUSI 312 - Music Therapy for Children Credits: 3
- MUSI 327 - Psychology of Music Credits: 3

- MUSI 329 - Clinical Integration Credits: 0 or 1 (1 credit)
- MUSI 330 - Clinical Integration Credits: 0 or 1 (1 credit)
- MUSI 428 - Music Therapy Advanced Topics Credits: 3
- MUSI 432 - Clinical Integration Credits: 0 or 1 (1 credit)
- MUSI 433 - Clinical Integration Credits: 1
- MUSI 440 - Music Therapy for Adult Clients Credits: 3
- MUSI 450 - Music Therapy Internship Credits: 1 to 12 (7-12 credit)

***Major Applied - Credits: 7**

Must all be in the same instrument. Students must earn a 'C' or better in each semester of applied major study Four credits at the 300+ level are required.

***Minor Applied - Credits: 4**

Voice & Instrumental majors only. Students must earn a 'C' or better in each semester.

***Minor Applied - Credits: 4**

Piano Majors only. Class piano cannot be counter toward the minor applied. Piano majors must select another instrument. Students must earn a 'C' or better each semester to move on to the next semester.

***Additional Information: Internship Requirements**

***Large Ensemble Courses - Credits: 7**

Additional Requirements - Credits: 6

- PSYC 276 - Introduction to Abnormal Psychology Credits: 3
- SPED 121 - High Incidence Disabilities Credits: 3
OR
- SPED 122 - Low Incidence Disabilities Credits: 3

Footnote

* See chairperson of Department of Music for an explanation of these requirements.

Philosophy

302 Spotts World Culture Building
724-738-2071

Philosophy

Chair

Richard Findler

Secretary

Diane Robbins

Faculty

Andrew Colvin, Katherine Cooklin, Richard Findler, Lisa Schoenberg, Tom Sparrow

"SRU is an excellent place to study philosophy because the faculty members are committed to student learning and student success- both in the discipline of philosophy and in life. The education I have received has been valuable to me because it has taught me to critically question the world by looking at it from many different p."

Megan Kuhr
Class of '12
Attending Kent State University
M.L.I.S. Program

"Much of the success that I've had as a law student is attributable to the analytic and argumentative skills I've developed as a student in the Slippery Rock University Philosophy Department."

Bernard Kwitowski
Class of '01
Attorney, Thomas, Thomas and Hafer, LLP
Super Lawyers Rising Stars 2010

Philosophy teaches students to inquire in a systematic way into fundamental questions connected with one's relationships to oneself, others, society, and the world. It helps students pull their studies together into a unified project and to think about broader perspectives and implications, which are often lost sight of in specialized study. In particular, philosophy helps students to develop the following critical thinking essential to succeeding in academics, in the workplace, and in ones life.

- Analytical thinking: logical skills involving the ability to break down complex ideas and problems into their elements and to perform reasoning tasks efficiently and correctly.
- Evaluative thinking: skills of making intelligent ethical, social, esthetic, and religious value judgments related to fundamental issues in contemporary society and their implications for students' personal and professional lives.
- Synthetic thinking: skills of pulling together a variety of views and perspectives and resolving intellectual and practical conflicts related to the many competing ideas and information now readily available.

Philosophy prepares students for advanced studies in its own and in related fields, especially law. It is also good preparation for many careers that require a high level of logical and linguistic ability, ethical awareness, and the capacity to form sound interpretative judgments within complex and dynamic situations, on a local or global scale. Because of the strong emphasis on logical reasoning and critical thinking, philosophy majors are well suited to deal with rapid technological change. New roles have opened up in health care, government, education, business, environmental fields, and science and technology for those with professional training in ethics. Traditional philosophical education has been valuable for success in:

- the sciences, especially in relation to their theoretical foundations and their social impact;
- the comparative study of cultures
- law and policy studies
- business and the helping professions.

Many students combine philosophy with another field. Slippery Rock University's liberal studies program relies extensively on courses in philosophy to afford an important foundation for an undergraduate education.

Students have the opportunity to participate in frequent trips to conferences, join the Philosophy Club and achieve membership in the Philosophy Honorary.

Certificate in Humanities and Health

Students who complete the certificate will:

1. Understand the many dimensions of the healthcare systems in the United States and be able to analyze these dimensions from multiple perspectives, including literature, art, history, philosophy and politics.
2. Evaluate narrative approaches to health-related issues and identify their strengths and weaknesses in understanding issues in healthcare.
3. Understand basic ethical principles and frameworks and be able to apply these principles and frameworks to analyze cases taken from healthcare.

Letter of Completion in Humanities and Health - Credits: 12

Required Courses - Credits: 6

- PHIL 325 - Medical/Health Care Ethics Credits: 3
- INDP 309 - Health and Society Credits: 3

Elective Courses - Credits: 6

- HCAM 230 - The US Healthcare System Credits: 3
- HLTH 311 - International Health Credits: 3
- HLTH 316 - Human Sexuality Credits: 3

Minor in Ethics

Philosophy Department

This program requires eighteen credits in philosophy with at least six credits at the 300 level. Courses should be chosen in consultation with a member of the Philosophy Department.

Required Courses - Credits: 6

- PHIL 113 - Formal Logic Credits: 3
- PHIL 123 - Ethics Credits: 3

Select 2 of the following courses - Credits: 6

- PHIL 324 - Environmental Ethics Credits: 3
- PHIL 325 - Medical/Health Care Ethics Credits: 3
- PHIL 326 - Business Ethics Credits: 3

Select one course from the following - Credits: 3

- PHIL 140 - World Religions Credits: 3
- PHIL 163 - Philosophy in Literature Credits: 3
- PHIL 170 - American Philosophy Credits: 3
- PHIL 171 - Philosophy of Human Existence Credits: 3

Select one course from the following (may not be used above) - Credits: 3

- PHIL 324 - Environmental Ethics Credits: 3
- PHIL 325 - Medical/Health Care Ethics Credits: 3
- PHIL 326 - Business Ethics Credits: 3
- PHIL 331 - Social and Political Philosophy Credits: 3
- PHIL 335 - Philosophy of Law and Justice Credits: 3
- PHIL 336 - Philosophy of Gender and Sex Credits: 3
- PHIL 343 - Asian Philosophy Credits: 3

Minor in Philosophy

Philosophy Department

The Minor in Philosophy requires eighteen semester hours in philosophy with at least six credits at the 300 level or higher. Courses should be chosen in consultation with a member of the Philosophy Department.

Minor Requirements - Credits: 18

At least 6 credits must be at the 300 level or higher.

Students must complete at least 6 credits in residence at Slippery Rock University.

GPA requirement is 2.0 or higher.

- PHIL 101 - Philosophical Inquiry Credits: 3
- PHIL 113 - Formal Logic Credits: 3
- PHIL 123 - Ethics Credits: 3
- PHIL 140 - World Religions Credits: 3
- PHIL 163 - Philosophy in Literature Credits: 3
- PHIL 170 - American Philosophy Credits: 3
- PHIL 171 - Philosophy of Human Existence Credits: 3
- PHIL 190 - Experimental Credits: 1 to 3
- PHIL 195 - Workshop Credits: 1 to 3
- PHIL 198 - Selected Topics Credits: 1 to 3
- PHIL 261 - Philosophy of Art Credits: 3
- PHIL 290 - Experimental Credits: 1 to 3
- PHIL 295 - Workshop Credits: 1 to 3
- PHIL 298 - Selected Topics Credits: 1 to 3

- PHIL 313 - Symbolic Logic Credits: 3
- PHIL 324 - Environmental Ethics Credits: 3
- PHIL 325 - Medical/Health Care Ethics Credits: 3
- PHIL 326 - Business Ethics Credits: 3
- PHIL 331 - Social and Political Philosophy Credits: 3
- PHIL 335 - Philosophy of Law and Justice Credits: 3
- PHIL 336 - Philosophy of Gender and Sex Credits: 3
- PHIL 341 - Philosophy of Religion Credits: 3
- PHIL 343 - Asian Philosophy Credits: 3
- PHIL 351 - Philosophy of Natural Science Credits: 3
- PHIL 371 - History of Western Philosophy I Credits: 3
- PHIL 372 - History of Western Philosophy II Credits: 3
- PHIL 373 - Modern Authors and Issues Credits: 3
- PHIL 375 - Existentialism and Phenomenology Credits: 3
- PHIL 376 - Analytic Philosophy Credits: 3
- PHIL 390 - Experimental Credits: 1 to 3
- PHIL 395 - Workshop Credits: 1 to 3
- PHIL 398 - Selected Topics Credits: 3
- PHIL 490 - Independent Study Credits: 1 to 3 One or more supervised papers on an important philosophical theme.
- PHIL 495 - Workshop Credits: 1 to 3
- PHIL 498 - Selected Topics Credits: 1 to 3

Philosophy (BA)

Philosophy Department

B.A. in Philosophy - Credits: 33

Core Requirements - Credits: 21

- PHIL 113 - Formal Logic Credits: 3
OR
- PHIL 313 - Symbolic Logic Credits: 3
- PHIL 123 - Ethics Credits: 3
- PHIL 331 - Social and Political Philosophy Credits: 3
OR
- PHIL 335 - Philosophy of Law and Justice Credits: 3
- PHIL 341 - Philosophy of Religion Credits: 3
OR
- PHIL 343 - Asian Philosophy Credits: 3
- PHIL 371 - History of Western Philosophy I Credits: 3
- PHIL 372 - History of Western Philosophy II Credits: 3
- PHIL 375 - Existentialism and Phenomenology Credits: 3
OR

- PHIL 376 - Analytic Philosophy Credits: 3

Philosophy Electives - Credits: 12

At least 3 credits must be at the 300 level or higher

- PHIL 101 - Philosophical Inquiry Credits: 3
- PHIL 140 - World Religions Credits: 3
- PHIL 163 - Philosophy in Literature Credits: 3
- PHIL 170 - American Philosophy Credits: 3
- PHIL 171 - Philosophy of Human Existence Credits: 3
- PHIL 261 - Philosophy of Art Credits: 3
- PHIL 324 - Environmental Ethics Credits: 3
- PHIL 325 - Medical/Health Care Ethics Credits: 3
- PHIL 326 - Business Ethics Credits: 3
- PHIL 331 - Social and Political Philosophy Credits: 3
- PHIL 335 - Philosophy of Law and Justice Credits: 3
- PHIL 336 - Philosophy of Gender and Sex Credits: 3
- PHIL 341 - Philosophy of Religion Credits: 3
- PHIL 343 - Asian Philosophy Credits: 3
- PHIL 351 - Philosophy of Natural Science Credits: 3
- PHIL 373 - Modern Authors and Issues Credits: 3
- PHIL 375 - Existentialism and Phenomenology Credits: 3
- PHIL 376 - Analytic Philosophy Credits: 3
- PHIL 490 - Independent Study Credits: 1 to 3 CREDITS: 3
- PHIL 498 - Selected Topics Credits: 1 to 3 CREDITS: 3

Philosophy (BA) - Career-Related Concentration

This is a second major only

A 30 credit second major which allows students to design a program of philosophy courses to complement the student's preparations for a specific career.

Major Requirements - Credits: 30

Core Requirements - Credits: 6

- PHIL 113 - Formal Logic Credits: 3
- OR
- PHIL 313 - Symbolic Logic Credits: 3
- PHIL 123 - Ethics Credits: 3

Required Courses for Business/Economics/Accounting/Management/Marketing - Credits: 6

- PHIL 326 - Business Ethics Credits: 3
- PHIL 335 - Philosophy of Law and Justice Credits: 3

Required Courses for Communication - Credits: 6

- PHIL 163 - Philosophy in Literature Credits: 3
OR
- PHIL 261 - Philosophy of Art Credits: 3
- PHIL 170 - American Philosophy Credits: 3

Required Courses for Counseling - Credits: 6

- PHIL 325 - Medical/Health Care Ethics Credits: 3
- PHIL 375 - Existentialism and Phenomenology Credits: 3
OR
- PHIL 336 - Philosophy of Gender and Sex Credits: 3

Required Courses for Educational - Credits: 6

- PHIL 170 - American Philosophy Credits: 3
- PHIL 171 - Philosophy of Human Existence Credits: 3

Required Courses for Environmental Studies - Credits: 6

- PHIL 324 - Environmental Ethics Credits: 3
- PHIL 351 - Philosophy of Natural Science Credits: 3

Required Courses for Fine and Performing Arts - Credits: 6

- PHIL 163 - Philosophy in Literature Credits: 3
- PHIL 261 - Philosophy of Art Credits: 3

Required Courses for Journalism - Credits: 6

- PHIL 170 - American Philosophy Credits: 3
- PHIL 331 - Social and Political Philosophy Credits: 3

Required Courses for Law - Credits: 6

- PHIL 335 - Philosophy of Law and Justice Credits: 3
- PHIL 331 - Social and Political Philosophy Credits: 3
OR

- PHIL 170 - American Philosophy Credits: 3

Required Courses for Life Sciences - Credits: 6

- PHIL 324 - Environmental Ethics Credits: 3
- PHIL 351 - Philosophy of Natural Science Credits: 3

Required Courses for Literature - Credits: 6

- PHIL 163 - Philosophy in Literature Credits: 3
- PHIL 375 - Existentialism and Phenomenology Credits: 3

Required Courses for Medical and Health Care - Credits: 6

- PHIL 325 - Medical/Health Care Ethics Credits: 3
- PHIL 351 - Philosophy of Natural Science Credits: 3

Required Courses for Ministry - Credits: 6

- PHIL 341 - Philosophy of Religion Credits: 3
- PHIL 140 - World Religions Credits: 3
- OR
- PHIL 343 - Asian Philosophy Credits: 3

Required Courses for Politics, Sociology/Anthropology - Credits: 6

- PHIL 331 - Social and Political Philosophy Credits: 3
- PHIL 335 - Philosophy of Law and Justice Credits: 3
- OR
- PHIL 336 - Philosophy of Gender and Sex Credits: 3

Required Courses for Psychology - Credits: 6

- PHIL 351 - Philosophy of Natural Science Credits: 3
- PHIL 375 - Existentialism and Phenomenology Credits: 3

Required Courses for Recreation - Credits: 6

- PHIL 324 - Environmental Ethics Credits: 3
- PHIL 331 - Social and Political Philosophy Credits: 3

Required Courses for Social Welfare - Credits: 6

- PHIL 331 - Social and Political Philosophy Credits: 3
- PHIL 375 - Existentialism and Phenomenology Credits: 3

Required Courses for Technology - Credits: 6

- PHIL 351 - Philosophy of Natural Science Credits: 3
- PHIL 375 - Existentialism and Phenomenology Credits: 3

Required Electives - Credits: 18

At least 12 credits must be chosen from any other philosophy courses. The remaining 6 credit hours may be either philosophy courses or courses in an area related in the field of specialization.

PHIL *** (3 credits)

PHIL *** (3 credits)

PHIL *** (3 credits)

PHIL *** (3 credits)

+ 6 additional credits

= 18 credits

Political Science

203 Spotts World Culture Building
724-738-2075

Political Science

Chair

David Kershaw

Secretary

Heather Bennett

Faculty

Heather Frederick, Daniel McIntosh, Pragati Rawat, Heather Rice, Sharon Sykora

"Unlike the faculty at a lot of colleges and universities these days, the faculty at SRU was always incredibly accessible and helpful, always willing to discuss intellectual and social issues, and giving of their time on a personal level, as well. I've found that the opportunities I had to work one-on-one with professors like Rich Martin, Carol Prorok, and Bernie Freydborg served as a solid foundation for the student-faculty interaction I experienced at Yale Law School. My professors at SRU never allowed me to become complacent, and always challenged me to discover something new. For those who have the initiative to forge independent relationships with faculty at SRU, the rewards are terrific."

M. Lorraine Ford '94
Truman Scholar (Pa.) '93

Minor in American Politics

Political Science Department

Requirements for the Minor - Credits: 18

At least 9 of the required 18 hours must be at the 300 level or above.

A minimum of 18 credits from the following:

- POLS 101 - American National Government Credits: 3
- POLS 200 - State and Local Government Credits: 3
- POLS 321 - The Presidency Credits: 3
- POLS 223 - Law and Courts Credits: 3
- POLS 325 - The Congress Credits: 3
- POLS 327 - Public Opinion and Political Attitudes Credits: 3
- POLS 354 - Seminar in Religion and Politics Credits: 3
- POLS 375 - Women and Politics Credits: 3
- POLS 403 - Constitutional Law Credits: 3

Minor in Comparative Politics/International Relations

Political Science Department

The minor requires the completion of a minimum of 18 credit hours.

- 9 credits from the Comparative Politics block and 9 credits from the International Relations block.

Requirements for the Minor - Credits: 18

Comparative Politics - Credits: 9

- POLS 263 - Introduction to Comparative Politics Credits: 3
- POLS 369 - Politics of Developing Areas Credits: 3
- Additional courses TBD - contact the department with any questions.

International Relations and Politics - Credits: 9

- POLS 103 - International Relations Credits: 3
- POLS 220 - Foreign Policy Credits: 3
- POLS 322 - The United Nations and International Law Credits: 3
- POLS 365 - International Political Economy Credits: 3

- POLS 367 - National and International Security: Problems and Issues Credits: 3

Minor in International Affairs

Political Science Department

Requirements for the Minor - Credits: 18

A total of 18 credit hours is required, plus demonstration of language skills at or above the 103 level.

The student is required to have at least one international educational experience, as approved by that student's academic advisor and the director of the minor in global studies. This requirement may be met by coursework abroad, or through an international service project. The requirement may be waived in cases where a student can demonstrate financial hardship or a comparable international experience.

100-Level Courses - Credits: 6

Select from the following:

- GES 105 - World Regional Geography Credits: 3
- HIST 153 - Contemporary World History Credits: 3
- POLS 103 - International Relations Credits: 3
- ECON 105 - Economics of Social Issues Credits: 3

Global Electives - Credits: 9

At least 6 hours must be at the 300 level or above. Select from the following:

- COMM 217 - Intercultural Communication Credits: 3
- ECON 326 - International Economics Credits: 3
- ENGL 402 - World Literature Credits: 3
- ENV5 440 - Science, Technology and the Environment Credits: 3
- FIN 427 - International Financial Management Credits: 3
- FIN 430 - International Banking Credits: 3
- GES 242 - Geography of Religion Credits: 3
- GES 205 - Cultural Geography Credits: 3
- GES 315 - Cartography I Credits: 3
- GES 331 - Economic Geography Credits: 3
- GES 415 - Cartography II Credits: 3
- HLTH 311 - International Health Credits: 3
- POLS 220 - Foreign Policy Credits: 3
- POLS 263 - Introduction to Comparative Politics Credits: 3
- POLS 322 - The United Nations and International Law Credits: 3
- POLS 365 - International Political Economy Credits: 3
- POLS 367 - National and International Security: Problems and Issues Credits: 3

Demonstration of Language Competence

Demonstration of language skill may be by exam, by successful completion of coursework, or by credit for a language class above the 103 level. Non-native speakers in English may substitute demonstrated competence in English. Select from: Chinese, French, German, Italian, Japanese, Korean, Russian, and Spanish.

Foreign Cultural, Historical, or Political Studies - Credits: 3

Choose from the following:

- CHIN 306 - Survey of Chinese Civilization and Culture Credits: 3
- ENGL 316 - Asian Film Credits: 3
- FREN 306 - France and Francophone Identities Today Credits: 3
- GES 303 - Asia Credits: 3
- GES 308 - Europe Credits: 3
- GES 309 - Africa Credits: 3
- GERM 305 - German Civilization Credits: 3
- GERM 306 - Modern German Civilization Credits: 3
- HIST 306 - Russia Since 1855 Credits: 3
- HIST 332 - Britain Since 1689 Credits: 3
- HIST 352 - Latin America Since 1830 Credits: 3
- HIST 362 - Africa North of the Zambezi Credits: 3
- HIST 363 - Southern Africa Credits: 3
- HIST 381 - East Asian Military Traditions Credits: 3
- HIST 382 - Modern Asian Pacific Rim Credits: 3
- HIST 386 - Modern China Credits: 3
- HIST 427 - Nineteenth Century Europe Credits: 3
- HIST 462 - The Contemporary Middle East Credits: 3
- KORN 306 - Modern Korean Civilization Credits: 3
- RUSS 306 - The Challenge of Russian Legacy Credits: 3
- SPAN 305 - Spain Today Credits: 3
- SPAN 335 - Women in Hispanic Literature Credits: 3
- SPAN 431 - Exploring Spanish Culture through Media Credits: 3
- SPAN 432 - Exploring Latin American Cultures through Media Credits: 3

Minor in Political Science

Political Science Department

Required Courses - Credits: 18

At least 6 of the 18 required credits must be at the 300 level or above. No more than 9 of the 18 required credits may be in any one of the area elective blocks.

American Political Institutions - no more than 9 credits

- POLS 101 - American National Government Credits: 3
- POLS 200 - State and Local Government Credits: 3
- POLS 321 - The Presidency Credits: 3

- POLS 223 - Law and Courts Credits: 3
- POLS 325 - The Congress Credits: 3

Political Theory and Thought - no more than 9 credits

- POLS 110 - Foundations of Political Science Credits: 3
- POLS 215 - Introduction to Political Theory Credits: 3
- POLS 303 - Seminar in Democracy Credits: 3
- POLS 349 - Utopian Experiments: Issues of Gender and Power Credits: 3

International Relations & Politics - no more than 9 credits

- POLS 103 - International Relations Credits: 3
- POLS 220 - Foreign Policy Credits: 3
- POLS 322 - The United Nations and International Law Credits: 3
- POLS 350 - Transnational Terrorism Credits: 3
- POLS 365 - International Political Economy Credits: 3
- POLS 367 - National and International Security: Problems and Issues Credits: 3

Comparative Politics - no more than 9 credits

- POLS 263 - Introduction to Comparative Politics Credits: 3
- POLS 369 - Politics of Developing Areas Credits: 3
- POLS 370 - Latin American Politics and Development Credits: 3

Public Policy and Law - no more than 9 credits

- POLS 255 - Introduction to Public Policy Credits: 3
- POLS 357 - Civil Liberties and Civil Rights Credits: 3
- POLS 359 - Policy Analysis and Evaluation Credits: 3
- POLS 364 - Using Evidence to Solve Public Problems Credits: 3

Political Behavior - no more than 9 credits

- POLS 301 - Organized Political Action Credits: 3
- POLS 306 - Campaigns & Elections Credits: 3
- POLS 310 - Research Methods Credits: 3
- POLS 327 - Public Opinion and Political Attitudes Credits: 3
- POLS 328 - Assessing Public Opinion Credits: 3
- POLS 329 - Political Learning Credits: 3
- POLS 333 - The Political Film Credits: 3
- POLS 351 - Politics of Race Credits: 3
- POLS 354 - Seminar in Religion and Politics Credits: 3
- POLS 356 - Gay and Lesbian Politics Credits: 3
- POLS 372 - Campaign Management & Strategy Credits: 3
- POLS 375 - Women and Politics Credits: 3

Political Science (BA)

Political Science Department

Are you interested in American politics, international affairs, or critical issues such as health, the environment, and civil rights? Do you want to understand theories concerning the ideal government and how power and resources are allocated in society? Do you want to study these subjects and pursue a career based on your interest? If so, you should consider studying political science.

Political science majors enjoy a versatility of skills and a marvelous range of exciting careers in federal, state and local governments; law; business; international organizations; nonprofit associations and organizations; campaign management and polling; journalism; pre-collegiate education; electoral politics; research and university and college teaching.

Members of the department assist students in developing a philosophy of life, acquiring meaningful civic roles, and learning the skills that are basic to political, social, and economic success. The preparation of students for responsible citizenship in the academic community is encouraged through participation in department and university affairs. Students are encouraged to participate in the Model United Nations program and the Model North Atlantic Treaty Organization program. Other organizations include Amnesty International, Americans for Informed Democracy, and the university's annual Holocaust Remembrance program. Students also have the opportunity to participate in Law Career Day conferences and travel and study abroad. Practical experience in politics is provided through class activities and the internship program that involves students in the work-a-day worlds of local communities, as well as state and national governments and businesses in Harrisburg and Washington, D.C.

Requirements for the Major - Credits: 39

Candidates for the Bachelor of Arts in Political Science Degree are Required:

1. to complete 39 credit hours of course work
2. to complete two courses in four of six area listed below.
3. to complete POLS 101, American National Government, POLS 310, Research Methods, POLS 444, Capstone: Political Analysis.
4. to complete 20 hours in political science at the 300 or 400 level.
5. to complete at least 48 credits at the 300 or 400 level. (In order to accomplish this, students are strongly urged to use 300 or 400 level courses to complete their liberal studies enrichment courses.)

In Addition, Students:

1. may complete an internship, POLS 450, of up to twelve hours, but not more than six of those hours may count toward the minimum requirement of thirty-six hours for completion of the major. Alternatively a student might complete the Harrisburg Internship Program, Pols 451, 452, and 454; but, again not more than six of those hours may count toward the minimum requirement of thirty-nine hours for the completion of the major.
2. may elect to take as many elective courses beyond the required minimums as they choose, but not more than fifteen hours in any one block may count toward the minimum requirement of thirty-nine hours for completion of the major.
3. earning a bachelor of arts degree must demonstrate a competency at the equivalent of the 103 level in a foreign language.

Required Courses - Credits: 9

- POLS 101 - American National Government Credits: 3
- POLS 310 - Research Methods Credits: 3
- POLS 444 - Capstone: Political Analysis Credits: 3

Complete At Least Two Courses in Four of the Six Areas Listed Below - Credits: 24-30

American Political Institutions:

- POLS 200 - State and Local Government Credits: 3
- POLS 321 - The Presidency Credits: 3
- POLS 223 - Law and Courts Credits: 3
- POLS 325 - The Congress Credits: 3

Political Theory & Thought:

- POLS 110 - Foundations of Political Science Credits: 3
- POLS 215 - Introduction to Political Theory Credits: 3
- POLS 303 - Seminar in Democracy Credits: 3
- POLS 349 - Utopian Experiments: Issues of Gender and Power Credits: 3

International Relations & Politics:

- POLS 103 - International Relations Credits: 3
- POLS 220 - Foreign Policy Credits: 3
- POLS 322 - The United Nations and International Law Credits: 3
- POLS 350 - Transnational Terrorism Credits: 3
- POLS 365 - International Political Economy Credits: 3
- POLS 367 - National and International Security: Problems and Issues Credits: 3

Comparative Politics:

- POLS 263 - Introduction to Comparative Politics Credits: 3
- POLS 369 - Politics of Developing Areas Credits: 3
- POLS 370 - Latin American Politics and Development Credits: 3

Public Policy & Law:

- POLS 255 - Introduction to Public Policy Credits: 3
- POLS 357 - Civil Liberties and Civil Rights Credits: 3
- POLS 359 - Policy Analysis and Evaluation Credits: 3
- POLS 364 - Using Evidence to Solve Public Problems Credits: 3
- POLS 403 - Constitutional Law Credits: 3

Political Behavior:

- POLS 301 - Organized Political Action Credits: 3
- POLS 306 - Campaigns & Elections Credits: 3
- POLS 327 - Public Opinion and Political Attitudes Credits: 3
- POLS 328 - Assessing Public Opinion Credits: 3
- POLS 329 - Political Learning Credits: 3
- POLS 333 - The Political Film Credits: 3
- POLS 351 - Politics of Race Credits: 3
- POLS 354 - Seminar in Religion and Politics Credits: 3
- POLS 356 - Gay and Lesbian Politics Credits: 3
- POLS 372 - Campaign Management & Strategy Credits: 3
- POLS 375 - Women and Politics Credits: 3

Optional

If a student takes 24 credits from above, then a six (6) credit internship may be selected. If a student takes 27 credits from the above areas, then a three (3) credit internship may be selected.

Note: May complete an internship, POLS 450, of up to twelve (12) hours, but not more than six (6) of those hours may count toward the minimum requirement of thirty-nine (39) hours for completion of the major. Alternatively, a student might complete the Harrisburg Internship Program, POLS 451, 452 and 454; but, again, not more than six (6) of those hours may count toward the minimum requirement of thirty-nine (39) hours for the completion of the major.

- POLS 450 - Internship Credits: 12 CREDITS: 3-12
- POLS 451 - Harrisburg Internship Credits: 12 CREDITS: 3-12
- POLS 452 - Harrisburg Internship Project Credits: 3
- POLS 454 - Harrisburg Internship Seminar Credits: 3

Theatre

214 University Union
724-738-2090

Theatre

Chair

Rebecca Morrice

Secretary

Melanie Martin

Technical Director

Michael Boone

Faculty

Deanna Brookens, Rebecca Morrice, Gordon Phetteplace, David Skeelee, Laura Smiley

Studies and experiences in the theatre tap some of the deepest veins of human self-expression and confirm the abiding hold this unique art form has on thoughtful and imaginative people everywhere. Courses in theatre history examine the origins of the art and explore the ways in which theatre has responded to and developed from its times. Courses in acting or in the crafts of theatre enhance the skills of students, whether they seek eventual performance careers or simply wish to be more knowledgeable audience members. The performance of great dramatic literature enables students to touch intimately some of the enduring ideas of civilization: love, death, hope, ambition, loyalty. People who succeed in the theatre have learned how to cooperate, how to work within deadlines and constraints, how to liberate and control expressiveness, and how to deal constructively with the tensions of performance.

The Department of Theatre sponsors an active co-curricular production program and anticipates moving into newly renovated, state-of-the-art performance spaces in the 2019-2020 academic year. Plays of wide-ranging interest and appeal are produced each academic year. Recent productions include *Heathers*, *Frost/Nixon*, *Spring Awakening*, *Dead Man's Cell Phone*, *In the Forest*, *She Grew Fangs*, *Julius Caesar*, *A Christmas Carol*, *Electra: An American Gothic*, *Ghosts*, *December Things*, and *Dark North*.

SRU currently offers the following programs in Theatre:

BFA in Acting, Musical Theatre Performance Concentration

BFA in Acting, Theatre Performance Concentrations

BA in Theatre, Acting Concentration

BA in Theatre, Design & Technology Concentration

BA in Theatre, Arts Administration Concentration

Minor in Theatre

Coursework is also available in Theatre Arts Management and multidisciplinary Theatre Studies.

Acting (BFA) - Concentration in Acting

Beginning in the fall of 2019, the BFA Acting program will provide an affordable, four-year, focused, conservatory-style, 78-credit BFA Acting degree program, with two concentrations - Theatre Performance and Musical Theatre Performance. This degree program will prepare students for careers in theatre performance and musical theatre performance at a professional level as well as for a variety of professional performance jobs in the theatre and entertainment industry.

The program has two focused goals of providing students with affordable, liberal arts, BFA training in acting and producing contemporary musical theatre.

All BFA Acting students will gain a solid foundation in performance, acting skills, vocal and movement styles and practices, theatre history, directing, stage makeup, and an introduction to dance.

In the 28-credit Theatre Performance concentration, BFA students will continue to hone their skills in advanced acting techniques, dialects, and auditioning skills. They will have the opportunity to tailor their education by choosing from concentration options that allow them to gain additional training in arts administration, playwriting, voice, theatre history, dance, new play development, technical theatre, and touring theatre. This direction will allow students to gain

additional, employable skills in theatre. They will also complete a Health and Fitness course to emphasize the importance of maintaining the physical self.

Requirements for the major - Credits: 78

BFA Acting Core - Credits: 42

- DANC 125 - Experiencing Dance: Techniques and Styles Credits: 3
- THEA 131 - Fundamentals of Acting Credits: 3
- THEA 132 - Stagecraft Credits: 3
- THEA 142 - Wellness for the Actor Credits: 3
- THEA 222 - Acting II Credits: 3
- THEA 281 - Survey of Dramatic Literature I Credits: 3
- THEA 283 - Survey of Dramatic Literature II Credits: 3
- THEA 303 - Acting III Credits: 3
- THEA 324 - Stage Makeup Credits: 3
- THEA 337 - Directing Credits: 3
- THEA 351 - Movement for the Actor Credits: 3
- THEA 353 Voice for the Actor Credits: 3
- THEA 425 - Professional Theatre Practice Credits: 3
- THEA 442 - Senior Showcase Credits: 3

Acting Concentration Core - Credits: 23

- THEA 322 - Acting Technique Credits: 3 (Credits: 9)
- THEA 328 - Acting Shakespeare Credits: 3
- THEA 342 - IPA/Dialects Credits: 3
- THEA 344 - Auditioning Credits: 3
- THEA 355 - Projects in Theatre Credits: 1 to 2 (Credits: 2)
- THEA 394 - Theories of Acting and Directing Credits: 3

Acting Concentration - Health and Fitness Elective - Credits: 3

Choose 1 of the following:

- ERS 230 - Stress Management Credits: 3
- HLTH 101 - Personal Health Credits: 3
- HLTH 314 - Nutrition and Health Credits: 3
- PE 342 - Wellness through Movement Credits: 3

Acting Concentration - Career enhancement Electives - Credits: 6

Choose 2 of the following:

- THEA 159 - Introduction to Theatre Arts Management Credits: 3
- THEA 235 - Costume Technology Credits: 3
- THEA 269 - Playwriting Credits: 3
- THEA 332 - Advanced Stagecraft Credits: 3
- THEA 345 - Stage Management and Safety Credits: 3
- THEA 359 - Studies in Audience Development Credits: 3
- THEA 498 - Selected Topics Credits: 1 to 3

Acting Concentration - Advanced Acting Electives - Credits: 4

Choose 4 credits from the following:

DANC XXX - Choose from:

- DANC 220-222, 224, 298, 305, 320-322, 420-422, 424, 426, 428
- THEA 145 - Musicianship for Musical Theatre Credits: 3
- THEA 244 - Acting for Song I Credits: 3
- THEA 322 - Acting Technique Credits: 3
- THEA 329 - Shakespeare Tour Credits: 3
- THEA 339 - New Play Development Credits: 3
- THEA 340 - International Theatre Experience Credits: 3
- THEA 346 - Private Musical Theatre Voice Credits: 1
- THEA 355 - Projects in Theatre Credits: 1 to 2
- THEA 450 - Internship Credits: 1 to 12
- THEA 490 - Independent Study Credits: 1 to 3
- THEA 498 - Selected Topics Credits: 1 to 3

Acting (BFA) - Concentration in Musical Theatre

Beginning in the fall of 2019, the BFA Acting program will provide an affordable, four-year, focused, conservatory-style, 78-credit BFA Acting degree program, with two concentrations - Theatre Performance and Musical Theatre Performance. This degree program will prepare students for careers in theatre performance and musical theatre performance at a professional level as well as for a variety of professional performance jobs in the theatre and entertainment industry.

The program has two focused goals of providing students with affordable, liberal arts, BFA training in acting and producing contemporary musical theatre.

All BFA Acting students will gain a solid foundation in performance, acting skills, vocal and movement styles and practices, theatre history, directing, stage makeup, and an introduction to dance.

In the 28-credit Musical Theatre Performance concentration, BFA students will continue to hone their craft through advanced vocal and dance training, acting, musicianship and music theory, and musical auditioning skills. They will also complete advanced studies in the history of musical theatre.

Requirements for the major - Credits: 78

BFA Acting Core Requirements - Credits: 42

- DANC 125 - Experiencing Dance: Techniques and Styles Credits: 3
- THEA 131 - Fundamentals of Acting Credits: 3
- THEA 132 - Stagecraft Credits: 3
- THEA 142 - Wellness for the Actor Credits: 3
- THEA 222 - Acting II Credits: 3
- THEA 281 - Survey of Dramatic Literature I Credits: 3
- THEA 283 - Survey of Dramatic Literature II Credits: 3
- THEA 303 - Acting III Credits: 3
- THEA 324 - Stage Makeup Credits: 3
- THEA 337 - Directing Credits: 3
- THEA 351 - Movement for the Actor Credits: 3
- THEA 353 Voice for the Actor Credits: 3
- THEA 425 - Professional Theatre Practice Credits: 3
- THEA 442 - Senior Showcase Credits: 3

Musical Theatre Concentration - Credits: 36

- THEA 145 - Musicianship for Musical Theatre Credits: 3
- THEA 146 Class Voice for Musical Theatre Credits: 3
- THEA 244 - Acting for Song I Credits: 3
- THEA 246 Private Musical Theatre Voice Credits: 5 (5 semesters x 1 credit)
- THEA 344 Acting for Song II Credits: 3
- THEA 347 - Auditioning for Musical Theatre Credits: 3
- THEA 348 - Musical Theatre Repertory Credits: 3
- THEA 392 - History of Musical Theatre Credits: 3
- Choose two dance courses from:
 - DANC: 220-222, 224, 298, 305, 320-322, 420-422, 424, 426, 428, THEA 254, THEA 354 Credits: 4

Minor in Theatre

Theatre Department

Requirements for a Minor in Theatre - Credits: 20

Core Requirements - Credits: 11

- THEA 131 - Fundamentals of Acting Credits: 3
- THEA 132 - Stagecraft Credits: 3
- THEA 151 - Rehearsal and Production Credits: 1
- THEA 151 - Rehearsal and Production Credits: 1
- THEA 281 - Survey of Dramatic Literature I Credits: 3

OR

- THEA 283 - Survey of Dramatic Literature II Credits: 3

Intermediate Level Requirements - Credits: 3

- THEA 141 - Art of the Theatre Credits: 3
OR
- THEA 159 - Introduction to Theatre Arts Management Credits: 3
OR
- THEA 215 - Drawing/Drafting/CAD Credits: 3
OR
- THEA 222 - Acting II Credits: 3
OR
- THEA 235 - Costume Technology Credits: 3
OR
- THEA 269 - Playwriting Credits: 3
OR
- THEA 281 - Survey of Dramatic Literature I Credits: 3
OR
- THEA 283 - Survey of Dramatic Literature II Credits: 3

Advanced Level Requirements - Credits: 6

- THEA 322 - Acting Technique Credits: 3
- THEA 324 - Stage Makeup Credits: 3
- THEA 328 - Acting Shakespeare Credits: 3
- THEA 329 - Shakespeare Tour Credits: 3
- THEA 332 - Advanced Stagecraft Credits: 3
- THEA 333 - Scene Design Credits: 3
- THEA 334 - Stage Lighting Credits: 3
- THEA 335 - Costume Design and History Credits: 3
- THEA 337 - Directing Credits: 3
- THEA 339 - New Play Development Credits: 3
- THEA 340 - International Theatre Experience Credits: 3
- THEA 342 - IPA/Dialects Credits: 3
- THEA 345 - Stage Management and Safety Credits: 3
- THEA 355 - Projects in Theatre Credits: 1 to 2 (Credits: 1-6)
- THEA 359 - Studies in Audience Development Credits: 3
- THEA 392 - History of Musical Theatre Credits: 3
- THEA 393 - History of Theatre Design and Architecture Credits: 3
- THEA 394 - Theories of Acting and Directing Credits: 3
- THEA 425 - Professional Theatre Practice Credits: 3
- THEA 450 - Internship Credits: 1 to 12 (Credits: 3)
- THEA 490 - Independent Study Credits: 1 to 3 (Credits: 3)
- THEA 498 - Selected Topics Credits: 1 to 3 (Credits: 3)

Theatre (BA) - Acting

Theatre Department

Bachelor of Arts in Theatre - Acting

Major Requirements - Credits: 42

Core Requirements - Credits: 18

- THEA 131 - Fundamentals of Acting Credits: 3
- THEA 132 - Stagecraft Credits: 3
- THEA 281 - Survey of Dramatic Literature I Credits: 3
- THEA 283 - Survey of Dramatic Literature II Credits: 3
- THEA 337 - Directing Credits: 3
- THEA 425 - Professional Theatre Practice Credits: 3

BA Acting Concentration - Credits: 21

- THEA 151 - Rehearsal and Production Credits: 1
- THEA 151 - Rehearsal and Production Credits: 1
- THEA 151 - Rehearsal and Production Credits: 1
- THEA 222 - Acting II Credits: 3
- THEA 322 - Acting Technique Credits: 3
- THEA 324 - Stage Makeup Credits: 3
- THEA 328 - Acting Shakespeare Credits: 3
- THEA 330 - Voice and Movement for the Actor Credits: 3
- THEA 394 - Theories of Acting and Directing Credits: 3

Electives - Credits: 3

Choose 3 credits from the following:

- THEA 159 - Introduction to Theatre Arts Management Credits: 3
- THEA 215 - Drawing/Drafting/CAD Credits: 3
- THEA 235 - Costume Technology Credits: 3
- THEA 269 - Playwriting Credits: 3
- THEA 322 - Acting Technique Credits: 3
- THEA 329 - Shakespeare Tour Credits: 3
- THEA 339 - New Play Development Credits: 3
- THEA 340 - International Theatre Experience Credits: 3
- THEA 345 - Stage Management and Safety Credits: 3
- THEA 355 - Projects in Theatre Credits: 1 to 2
- THEA 359 - Studies in Audience Development Credits: 3
- THEA 450 - Internship Credits: 1 to 12
- THEA 490 - Independent Study Credits: 1 to 3
- THEA 498 - Selected Topics Credits: 1 to 3

Theatre (BA) - Arts Management

Bachelor of Arts in Theatre - Arts Administration

Major Requirements - Credits: 42

Core Requirements - Credits: 18

- THEA 131 - Fundamentals of Acting Credits: 3
- THEA 132 - Stagecraft Credits: 3
- THEA 281 - Survey of Dramatic Literature I Credits: 3
- THEA 283 - Survey of Dramatic Literature II Credits: 3
- THEA 337 - Directing Credits: 3
- THEA 425 - Professional Theatre Practice Credits: 3

Theatre Arts Management Concentration - Credits: 15

- THEA 159 - Introduction to Theatre Arts Management Credits: 3
- THEA 345 - Stage Management and Safety Credits: 3
- THEA 359 - Studies in Audience Development Credits: 3
- THEA 450 - Internship Credits: 1 to 12
- INDP 220 - Introduction to Nonprofit Management Credits: 3

Theatre Arts Management Level 1 Courses: Credits 3

Choose 3 credits from the following:

- THEA 151 - Rehearsal and Production Credits: 1
- ACCT 209 - Financial Accounting Credits: 3
- COMM 231 - Introduction to Public Relations and IMC Credits: 3
- COMM 235 - Introduction to Digital Design Credits: 3
- COMM 248 - Interactive Multimedia 1 Credits: 3
- COMM 254 - Video Production Credits: 3
- ENGL 205 - Introduction to Professional Writing Credits: 3
- INDP 120 - Civic Engagement and Community Decision-Making Credits: 3
- INDP 305 - Financial Best Practice for Decision Makers Credits: 3
- INDP 251 - Leadership Theory Credits: 3

Theatre Arts Management Level 2 Courses - Credits: 6

Choose 6 credits from the following:

- ACCT 210 - Managerial Accounting Credits: 3
- OR
- ACCT 322 - Business Analysis and Decision Making Credits: 3
- COMM 307 - Social Media Credits: 3

- COMM 318 - Professional Presentation Credits: 3
- INDP 318 - Research Methods in Interdisciplinary Studies Credits: 3
- INDP 320 - Community Change and Development Credits: 3
- INDP 325 - Social and Ethical Issues in Philanthropy and Fundraising Credits: 3
- MGMT 351 - Organizational Behavior Credits: 3
- MRKT 330 - Principles of Marketing Credits: 3
- THEA 329 - Shakespeare Tour Credits: 3
- THEA 339 - New Play Development Credits: 3
- THEA 340 - International Theatre Experience Credits: 3
- THEA 355 - Projects in Theatre Credits: 1 to 2
- THEA 390 - Experimental Credits: 1 to 3
- THEA 392 - History of Musical Theatre Credits: 3
- THEA 393 - History of Theatre Design and Architecture Credits: 3
- THEA 394 - Theories of Acting and Directing Credits: 3
- THEA 490 - Independent Study Credits: 1 to 3

Required Stage Management Experience before Graduation

- Stage Management Experience 1
- Stage Management Experience 2

Theatre (BA) - Design & Technology

Bachelor of Arts in Theatre - Design & Technology

Major Requirements - Credits: 42

Core Requirements - Credits: 18

- THEA 131 - Fundamentals of Acting Credits: 3
- THEA 132 - Stagecraft Credits: 3
- THEA 281 - Survey of Dramatic Literature I Credits: 3
- THEA 283 - Survey of Dramatic Literature II Credits: 3
- THEA 337 - Directing Credits: 3
- THEA 425 - Professional Theatre Practice Credits: 3

Design & Technology Concentration - Credits: 21

- THEA 151 - Rehearsal and Production Credits: 1
- THEA 151 - Rehearsal and Production Credits: 1
- THEA 151 - Rehearsal and Production Credits: 1
- THEA 215 - Drawing/Drafting/CAD Credits: 3
- THEA 235 - Costume Technology Credits: 3
- THEA 333 - Scene Design Credits: 3
- THEA 334 - Stage Lighting Credits: 3

- THEA 335 - Costume Design and History Credits: 3
- THEA 393 - History of Theatre Design and Architecture Credits: 3

Design & Technology Advanced Electives - Credits: 3

Choose 3 credits from the following:

- THEA 324 - Stage Makeup Credits: 3
- THEA 329 - Shakespeare Tour Credits: 3
- THEA 332 - Advanced Stagecraft Credits: 3
- THEA 339 - New Play Development Credits: 3
- THEA 340 - International Theatre Experience Credits: 3
- THEA 345 - Stage Management and Safety Credits: 3
- THEA 355 - Projects in Theatre Credits: 1 to 2
- THEA 359 - Studies in Audience Development Credits: 3
- THEA 394 - Theories of Acting and Directing Credits: 3
- THEA 450 - Internship Credits: 1 to 12 CREDITS: 3
- THEA 490 - Independent Study Credits: 1 to 3 CREDITS: 3
- THEA 498 - Selected Topics Credits: 1 to 3 CREDITS: 3

Theatre (BA) - Theatre Studies

Major/Concentration Requirements - Credits: 42

- 21 Major credits must be taken at SRU or PASSHE
- 21 major credits must be taken at the 300 level or above

Core Requirements - Credits: 18

- THEA 131 - Fundamentals of Acting Credits: 3
- THEA 132 - Stagecraft Credits: 3
- THEA 281 - Survey of Dramatic Literature I Credits: 3
- THEA 283 - Survey of Dramatic Literature II Credits: 3
- THEA 337 - Directing Credits: 3
- THEA 425 - Professional Theatre Practice Credits: 3

Theatre Studies - Core - Credits: 9

- THEA 151 - Rehearsal and Production Credits: 1
- THEA 151 - Rehearsal and Production Credits: 1
- THEA 151 - Rehearsal and Production Credits: 1
- THEA 215 - Drawing/Drafting/CAD Credits: 3
- THEA 222 - Acting II Credits: 3
- OR
- THEA 269 - Playwriting Credits: 3
- OR

- THEA 159 - Introduction to Theatre Arts Management Credits: 3
OR
- THEA 235 - Costume Technology Credits: 3

Theatre Studies - Management Coursework - Credits: 3

Select one of the following:

- THEA 345 - Stage Management and Safety Credits: 3
- THEA 359 - Studies in Audience Development Credits: 3

Theatre Studies - Design Coursework - Credits: 6

Select one of the following:

- THEA 333 - Scene Design Credits: 3
OR
- THEA 334 - Stage Lighting Credits: 3
OR
- THEA 335 - Costume Design and History Credits: 3

Theatre Studies - Advanced Coursework - Credits: 9

Select 9 credits from the following:

- THEA 324 - Stage Makeup Credits: 3
- THEA 328 - Acting Shakespeare Credits: 3
- THEA 329 - Shakespeare Tour Credits: 3
- THEA 330 - Voice and Movement for the Actor Credits: 3
- THEA 332 - Advanced Stagecraft Credits: 3
- THEA 333 - Scene Design Credits: 3
OR
- THEA 334 - Stage Lighting Credits: 3
OR
- THEA 335 - Costume Design and History Credits: 3
- THEA 339 - New Play Development Credits: 3
- THEA 340 - International Theatre Experience Credits: 3
- THEA 342 - IPA/Dialects Credits: 3
- THEA 345 - Stage Management and Safety Credits: 3
- THEA 355 - Projects in Theatre Credits: 1 to 2
- THEA 359 - Studies in Audience Development Credits: 3
- THEA 392 - History of Musical Theatre Credits: 3
- THEA 393 - History of Theatre Design and Architecture Credits: 3
- THEA 394 - Theories of Acting and Directing Credits: 3
- THEA 450 - Internship Credits: 1 to 12
- THEA 490 - Independent Study Credits: 1 to 3
- THEA 498 - Selected Topics Credits: 1 to 3

Student Success

Academic Services

009 and 106 Bailey Library
724-738-2012
724-738-2009

Chair

Mark Campbell

Secretary

Jennifer Stroup

Faculty

Cathy Brinjak, Mark Campbell, Annette Salsovic

Academic Support Services Program

Academic Support Services Program serves first-generation, income-eligible students who may experience academic challenges at Slippery Rock. Students experience individual and group academic advisement activities and learning strategies support which teaches them how to apply and develop effective learning and study habits.

First Year Studies

First Year Studies begins with a Rock Solid Orientation

FIRST begins with an orientation program during which students are introduced to the campus, to a FIRST faculty advisor, and to many institutional resources and services. New student orientation is designed to help students achieve a successful transition to university life. Slippery Rock employs new and innovative ways to greet new students in their first few days on campus

and assist them continually throughout their first year. New students who are admitted early have the opportunity to attend an early orientation program in the spring of their senior year. These students receive a head start on their college experience by scheduling for classes, receiving financial aid information, making and securing living arrangements, and meeting new friends, faculty, and college staff. The orientation program, which is conducted in June, is comprised of an overnight experience and more time to explore the campus and its resources. In August, new students are invited back to campus prior to the beginning of the fall semester for a welcome orientation session.

Academic Advisement

Academic Advisement is perhaps the most important faculty/student relationship outside the classroom. The University's academic advisement system is comprised of two primary organizational structures that include First Year Studies advisement and upper-class student/transfer student advisement.

First Year Studies (FIRST) Advisement

All academic advisement of new freshmen is coordinated and directed by FYRST. The mission of FYRST advising is to personalize the first year by ensuring that every student receives a high standard of academic advisement services from pre-enrollment to orientation, and throughout the student's first year. FYRST advising provides assistance that will help students to acquire the knowledge and skills necessary to select an academic program or major which best suits their individual abilities, interests and career goals. During the student's enrollment in FYRST, he/she should develop a more thorough understanding of his/her own purpose and goals in college as well as those of the university. If a new freshman has declared a major, advisement will be provided by a faculty member selected from the major department. If no major has been declared, the student will be actively involved in the Exploratory Program and advised by a selected faculty member who has volunteered to work with students who have not decided upon a major. Progression through FYRST will be assisted by the faculty advisor, however, it is the student's responsibility to see that he/she meets all requirements of the degree granting college so that upon completion of the first year of study, the student has attained the minimum number of credits, the specified courses and the minimum grade point average required by the major department.

Upper-class Student/Transfer Student Advisement

As a student progresses from FYRST to the degree-granting college, some departments may reassign their students to different academic advisors during the upper-division years, while other departments may permit the student to retain the FYRST advisor throughout his/her years of study at the university. Upon entrance into the university, new transfer students are assigned academic advisors from their major program.

Exploratory (Undeclared) Program

Students entering the university who are exploring majors participate in the Exploratory Program. These students are advised by FYRST advisors who volunteer their time to advise students as part of the Exploratory Program. The faculty identified as FYRST Exploratory advisors have an interest in and a commitment to assisting new students in their transition to college life. Nearly all Exploratory students are advised by members of the Academic Services Department.

Advisement Development

The Academic Advisement Center is responsible for developing advisor and student advising resources, conducting advisor training and first year student advising informational workshops, and maintaining its involvement in retention-related and first-year research activities.

Learning Community Clusters

The university implemented a learning community cluster program which includes a freshman seminar for the purpose of improving students' academic and social integration and establishing an educational environment that maximizes both student-student interaction, student-faculty and student-professional staff interaction. The transition to university life can be challenging and even stressful. The academic and social advantages provided by joining a learning community cluster and freshman seminar initiative can help reduce that stress. By enrolling in the same classes, students are encouraged to meet new people, make friends easily, form study groups, participate in class discussions, and become engaged with their professors.

Research has shown that the more students connect to the university, the more successful they are in their college experience. Our research shows that by enhancing a student's sense of community and involvement, the freshman seminar and learning community clusters contribute to higher retention rates. Because both freshman seminars and learning communities promote active learning and foster collaboration and cooperation, students who participate are higher achievers and more involved in their classes.

Freshman Seminar (FYRST Seminar)

The freshman seminar course is designed especially to enhance the academic, social, and personal integration of the student by focusing on transition topics related to the college environment (e.g., time management, active learning strategies, note-taking skills, test preparation, goal setting, use of campus technology, academic advising, major and career exploration, professional development in the technology fields, diversity, relationship issues, and issues of wellness).

Academic and Learning Assistance Resources

Available online from the Academic Services Department are a series of academic and learning assistance resources for students. This resource center offers free materials on first-year and adult academic transition tools; learning assistance resources on time management, effective reading, test preparation, test taking and note taking; and academic advising resources on scheduling tips, grade point average calculations, and information on major and career selection.

Tutorial Center

Slippery Rock University's Tutorial Center assists undergraduate students in meeting their academic goals with free peer individual and group tutoring services, study skills workshops, and Supplemental Instruction (SI). Emphasis upon basic skills and upon the Liberal Studies areas, study skills instruction and support, communication with faculty, and extensive training and supervision of tutors meet students' immediate academic and content based needs and provide them with effective and transferable study skills. Tutorial services at Slippery Rock University are personalized and tailored to individuals' academic needs.

Tutoring services also include the proactive Supplemental Instruction (SI) model for academic assistance. Students hired as leaders attend assigned classes and work closely with enrolled students to model and teach study skills strategies. Leaders facilitate group-tutoring sessions emphasizing cooperative learning activities.

Individual tutoring sessions for students are scheduled by appointment or on a drop-in basis, whereas group and SI sessions are scheduled to accommodate the greatest number of interested students.

College Skills Workshops

During the fall, the Tutorial Center offers an array of workshops designed to help students succeed in college. All students are eligible to participate in the workshops on such topics as managing time, taking effective class notes, reading texts, building a strong memory, increasing test-taking skills.

Transformational Experiences

Library

Academic Policies

Academic procedures and policies are subject to change at any time. Changes may involve course content, credit hours, program requirements, and program admission requirements among others. It is the students' responsibility to review their My Rock Audit Report and confer with their academic advisers, the appropriate academic department, and the Office of Academic Records regarding current academic procedures and policies.

Click on a link to be taken to the entry below.

- Procedures and Policies
 - Absence Policy
 - Academic Advisers
 - Academic Complaints
 - Academic Standards
 - Academic Integrity
 - Academic Restart
 - Attendance Policy
 - Auditing Courses
 - Change of Major
 - Chosen Name Policy
 - Classification of Students
 - Continuous Registration
 - Course Levels
 - Credit by Examination
 - Credit for Military Service
 - Dean's List
 - Instructional Method
 - Military Absence Policy
 - Writing Outcomes for SRU students
- Degree Requirements
 - Academic Certificate
 - Academic Minor
 - Application for Graduation
 - Completion of Degree/Certificate Requirements
 - Computer Competency
 - Exit Examinations
 - Graduation Requirements
 - Earning 2 Degrees or 2 Majors
 - Minimum Credit Hour and Quality Point Requirements
 - Modern Language Requirement for BA Degree
 - Posthumous Conferral of Degree
 - Residency
 - Second Baccalaureate Degree
 - Upper Division Course Work
- Credit Hour Policy
- Drop, Add, Withdrawal
- Final Examinations
- Freshman Cohort and Student Athlete Graduation Rate
- Grade Information
 - Procedure for Filing Grade Appeal
 - Grade Change
 - Grade Release Policy
 - Grading System and Policies
 - Incomplete Grades
 - Pass-No Credit Grades
 - Grade Point Average
 - X Symbol
- Name Change
- Notice of Consumer Information Web Site and Annual Security Report
- Notice Designating Directory Information
- Prerequisites and Co-requisites
- Readmission
- Records Privacy Policy
- Repeat of Courses
- Semester Credit Load
- Senior Citizens
- Senior Undergraduate Students Earning Graduate Credit
- Student Identity Verification in Distance Learning Policy
- Student Responsibility
- Summer Sessions
- Transcripts
- Transient Student Status
- Veteran Students Course Scheduling
- Visiting Students
- Withdrawal from the University

Procedures and Policies

Absence Policy

Slippery Rock University expects students to attend class. It is the prerogative of the individual instructor to establish requirements for class attendance. Students are responsible for complying with the instructor's requirements. Without permission of an individual instructor, no test or class material will be repeated or rescheduled.

Students who miss class due to short-term illness may request written verification from Student Health Services when the student is confined to their residence 24 hours or longer. Written verification may also be provided when a student is hospitalized if the Health Center is aware of the situation.

Prolonged illness or extraordinary circumstances such as a death in the family, military deployment, or other major life event must be reported to the Office of Associate Provost for Student Success, which notifies the student's instructor(s) of the absence. A student absent for a significant time should consult with his or her advisor before deciding to withdraw or continue.

Notifications generated by the Associate Provost for Student Success do not constitute an excuse. These notices are simply designed to make instructors aware of conflicts impacting a student's attendance. Attendance policies and procedures for making up missed work are at the discretion of each individual faculty member.

Academic Advisers

Academic advisers are assigned in the freshman year by the students' major department or the Academic Advisement Center. Some departments may reassign their students to different academic advisers during the students' sophomore or junior year. Secondary education students are assigned academic advisers by the department of secondary education/foundations of education in consultation with the content area department. Exploratory program students are assigned academic advisers by the Academic Advisement Center.

It is the academic advisers' responsibility to aid their advisees with their academic and educational plans. The advisers are not responsible for making certain that their advisees graduation requirements have been met. This is the sole responsibility of the students.

Academic Complaints

Students who want to file an appeal concerning any academic matter should first contact their instructor. Barring resolution there, students should contact the appropriate departmental chairperson, then the appropriate dean. Further appeal is to be directed to the Provost and Vice President for Academic and Student Affairs. Please refer to the university's Grade Appeal Policy.

TOP

Academic Standards (Probation, Suspension, and Dismissal Policies)

The Academic Deans determine the academic standing of all students at the end of each semester. Academic standing is based on:

1. The student's cumulative grade point average.
2. The total number of credits for which the student has attempted prior to the review. The review credits also include transfer credits, "Credit by Exam" credits, and credits for repeated courses. It does not include credits for audited courses.

Undergraduate and Post-Baccalaureate students with a cumulative grade point average CGPA of 2.00 or higher are in satisfactory/good academic standing. Students with less than satisfactory academic standing are subject to academic warning, probation, suspension or dismissal.

The following procedure applies to all undergraduate and post-baccalaureate students who do not meet the required minimum CGPA as specified:

<u>Review Credits</u>	<u>Cumulative GPA</u>	<u>Procedure</u>
0.5 – 16.0	Below 2.000	Warning Letter
16.1 – 32.0	1.750-1.999	Warning Letter
16.1– 32.0	Below 1.750	Probation Letter
32.1 or more	Below 2.000	Probation Letter
32.1 or more while on probation	Below 2.000	Suspension or Dismissal

An undergraduate student cannot be suspended/dismissed at the end of any semester in which he/she has earned a 2.00 or greater semester GPA, even if his/her cumulative GPA remains less than 2.00.

ACADEMIC PROBATION:

When subject to academic probation, the student will be placed on probation for one semester. A student on probation will return to satisfactory academic standing at the end of the semester in which he/she earns a 2.00 cumulative grade point average (GPA).

ACADEMIC SUSPENSION:

Undergraduate students who are on probation who fail to either earn a 2.00 CGPA or 2.00 semester GPA will be suspended from the university. No undergraduate students will be suspended or dismissed at the end of the winter or summer session.

FIRST TIME SUSPENSION:

Students on academic suspension for the first time will not be able to register for or attend classes at the university for one semester. Summer term and Winter session do not count as a semester for suspension purposes.

SECOND TIME SUSPENSION:

Students on academic suspension for the second time will not be able to register for or attend classes for two semesters. Summer term and Winter session do not count as a semester for suspension purposes.

READMISSION:

Students who are placed on academic suspension for the first or second time and have an interest in returning to the university after sitting out for the one or two semester period will request readmission through the Academic Services Department.

THIRD TIME DISMISSAL:

Students on academic suspension for the third time will be dismissed from the university. Students are dismissed for at least three years, and after that time only special cases will be considered by the Academic Standards Committee (Assistants to the Deans of each college and the Assistant to the Associate Provost for Student Success).

SUSPENDED / DISMISSED STUDENTS:

Students who have been suspended/dismissed may not register for courses offered any semester, session, or term. An undergraduate student will *not* be suspended/ dismissed for academic reasons in any semester that he/she has:

- been in good academic standing (i.e. not on probation), or
- earned a 2.00 or higher semester GPA, or
- complied with the terms of his/her Academic Success Plan created in consultation with a Student Success Coach

POST-BACCALAUREATE STUDENTS:

The records of post-baccalaureate students with less than a 2.00 semester grade point average will be reviewed by their dean for determination of an academic action of probation, suspension, or dismissal.

TOP

Academic Integrity

Purpose of SRU's Academic Integrity Policy

The value of education is determined by the quality and character of its students and graduates. Therefore, students, student organizations, management, and faculty are expected to uphold academic integrity.

Definition of Academic Integrity

Academic integrity refers to the adherence to agreed upon moral and ethical principles when engaging in academic or scholarly pursuits. Mastery of subject matter should be demonstrated in an honorable and straightforward manner.

The Significance of Course Grades and the SRU Degree

A course grade certifies both your knowledge of that particular material and a standard of academic integrity. The SRU degree certifies to society both the educational achievement and the fulfillment of our standards, which include ethical and moral behavior.

Discipline

Inherent in the learning process is a commitment to discipline. Discipline is a specific form of training that looks to the future where one learns lessons and makes better choices. The instructor will guide the learning process by identifying unacceptable behavior and work with students to define the problem and guide them to make better choices. This process preserves the value and reputation of the degrees conferred by SRU. There are two types of discipline: pre-emptive and corrective discipline.

1. Pre-emptive Discipline

Pre-emptive discipline is a means of training which mandates that the student undertake certain appropriate actions in the course of the learning process. It is expected that students engage in the following pre-emptive behaviors:

- a. All academic work, including, but not limited to, papers, computer programs, assignments, and tests, must consist of the student's own work and not that of other students or other authorities.
- b. Students are expected to be honest in all academic work, refraining from all forms of academic dishonesty.
- c. Students are expected to function as such, including, but not limited to, attending class regularly and completing all assignments and examinations on their own unless the faculty member notes otherwise.
- d. Students are expected to learn, practice and apply standard techniques for accurately citing resource material. It is the student's, not the instructor's, responsibility to ensure that all material is cited.
- e. Students are expected to know the difference between direct quote and citation. When in doubt, the essence of the text should be conveyed in the student's own words.
- f. Students are expected to understand basic principles of respect and compliance with intellectual property law. Particularly important are those aspects of the Copyright Law of the United States that apply to academic work as well as to the use of University computer resources.

1. **Corrective Discipline**

Corrective discipline could be implemented when students engage in dishonest behavior. Corrective discipline activities may include:

- a. Conferring with the instructor to identify inappropriate behaviors
- b. Developing a remediation plan and behavioral goals
- c. Developing a means of assessing the student's accomplishment of the established goals
- d. Identifying student sanctions to be put in place if the student does not meet these behavior goals.
- e. Filing out a conduct referral for the Office of Student Conduct

Dishonest Behavior

Dishonest Behavior that would merit corrective discipline is defined as any action that gives the student an unfair advantage. Academic dishonesty may take many forms. **Examples of academic dishonesty include, but are not limited to, the following:**

1. Buying, selling, or trading papers, projects, or other assignments.
2. Using or attempting to use any unauthorized book, notes, or assistance (for example, copying another student's test or homework).
3. Plagiarizing and/or submitting the work of another as your own.
4. Completing class work for another person.
5. Fabricating information or citations.
6. Facilitating dishonest acts of others pertaining to academic work.
7. Possessing unauthorized examinations.
8. Submitting, without instructor permission, work previously used.
9. Tampering with the academic work of another person.
10. Ghost-taking an exam in place of a student or having any person take an exam in your place.

11. Any attempt to falsify an assigned grade on an examination, report, or program or in a grade book, document, or other record.
12. Any attempted, or actual computer program theft, illegal use of software; illegal downloading or streaming of copyrighted media, or inappropriate use of the Internet; such as, but not limited to, illegal or unauthorized transmission; or improper access to any computer system or account.
13. Any attempted, or actual, collusion willfully giving or receiving unauthorized or unacknowledged assistance on any assignment or examination (all parties are considered responsible).
14. Forging a faculty member's or administrator's signature on any document.
15. Copying and pasting digital media including, but not limited to, email correspondence, text, images, or other media from online sources without proper citation, the copyright owner's permission to use the digital media; or, evidence of having performed a favorable fair use analysis.
16. Copying and pasting significant portions of digital media with or without citation.

Implications of Dishonest Behavior

1. Implications to the Student

- a. The student is deprived of the totality of the learning process and lacks the knowledge and skills needed to succeed.
- b. The student subsequently misrepresents his/her qualifications to employers; graduate schools etc. and is not as qualified to perform the work as represented.
- c. The student invalidates the assessment tool used to evaluate the class and deprives the faculty from truly evaluating the effectiveness of the assessment instrument and/or the teaching-learning process.
- d. The student is temporarily rewarded by a good grade but induces others, directly or indirectly, to engage in dishonest behavior.
- e. The student will have conditioned himself/herself to take shortcuts when pressured. This behavior will then be repeated when he/she is in the professional world.
- f. The student receives an unfair advantage, relative to other students who conduct themselves in an ethical manner.
- g. The student could be liable for civil or criminal penalties as a result of violating federal intellectual property laws.

1. Implications to the University

- a. Interns, graduates, etc. will not be qualified to function in their respective professions. Consequently, the SRU degree will be devalued, and SRU will be less attractive as a school for employers recruiting interns or prospective employees.
- b. The perception of the public will be that SRU engages in grade inflation.
- c. Alumni/government funding may decrease.
- d. SRU will lose qualified students for seats occupied by unqualified students who engaged in dishonest behavior.
- e. SRU's ability to recruit top performing students will be negatively impacted as its reputation becomes tarnished.
- f. The University, its faculty and staff could be at risk of penalties as a result of the student's violation of federal intellectual property laws.

1. **Implications to Prospective Employers, including those who provide Internships**
 - a. The student will have engaged in resume/transcript fraud; thus, employers will not be hiring a well-educated employee but instead will be gaining one who cannot perform at the level they represent.
 - b. Employers who have bad experiences with SRU graduates will not recruit from the University or provide internship opportunities.
 - c. Employers will have wasted resources on graduates who are not qualified to do the job.
 - d. Students who have legitimately attained a moderate to high GPA may be overlooked.

Rights and Responsibilities

1. **Course Instructor**
 - The instructor has the right to demand academic integrity and authentic authorship in the face-to-face or online classroom.
 - The instructor has the responsibility to ensure that SRU's academic integrity standards are followed.
 - The instructor is responsible for communicating to students SRU's Academic Integrity Policy and the minimum penalties for dishonesty in the course syllabus.
 - The instructor is expected to take steps to minimize the opportunity for students to engage in academic dishonesty.
 - The instructor clearly communicates course expectations.
 - The instructor who alleges academic dishonesty is responsible for filing out a conduct referral for the Office of Student Conduct.
 - The instructor will gather evidence and participate in the resolution of cases that he/she initiates by following set procedures.
 - The instructor serves as a role model and mentor by instilling, through example, high ethical conduct in his/her own academic endeavors and in the classroom and online learning environment.
 - The instructor emphasizes to students the importance of honesty and a respect for integrity within the profession.
 - The instructor, in accordance with the provisions of the Family Educational Rights and Privacy Act of 1974, as amended, will treat as strictly confidential any information relating to an alleged violation of the University's Academic Integrity Policy or the outcome of a conduct hearing.
2.
 - SRU has a right to discipline students who deviate from academic standards. The University is responsible for upholding the minimum standards of academic integrity and achievement on which degrees are based and for certifying that students have attained sufficient academic credit and exhibited acceptable standards of conduct to entitle them to a degree.
 - SRU has a right and is responsible for maintaining and encouraging high standards of academic integrity by establishing policies and procedures for academic integrity and authentic authorship.
 - The University is responsible for monitoring all violations of this policy in order to ensure the integrity and reputation of a degree from SRU.
 - The University is responsible for communicating this policy to students in any form deemed appropriate.
3.
 - A student accused of academic dishonesty has the right to due process, which means he/she will be informed of his/her alleged behavior and he/she will have an opportunity to have his/her case heard in a fair and impartial manner.
 - The student must read and understand SRU's policy on Academic Integrity since ignorance of this policy is not an acceptable defense by a student if a charge of academic dishonesty is made by the instructor against the student.

- The student must comply with these standards of integrity as part of the academic community.
- A student who fails to meet the procedural deadlines contained in the policy will forfeit his/her rights to a formal hearing for appealing a sanction.
- The student should actively encourage other students to comply with these standards.
- The student is encouraged to report any violations of this policy by other students to SRU faculty, administration or management. Students are encouraged to testify at subsequent formal hearings about such matters.
- A student has the right to be notified in writing within five (5) business days of the report of the alleged violation.
- A student has the right to meet with the faculty member to present his/her own version of the facts.
- A student has the right to accept the faculty member's allegations as true and accept the faculty member's imposed sanction as well as SRU's sanctions.
- A student always maintains the right to have the allegations heard before the Office of Student Conduct.

How Can Academic Integrity be encouraged?

1.
 - Spell out expectations for authentic authorship in the course syllabus and attach SRU's Academic Integrity Policy.
 - Review SRU's academic integrity policy when reviewing the syllabus.
 - Secure all assessment instruments for which a grade will be assigned.
 - Create an environment that encourages the prevention of academic dishonesty.
 - State within the syllabi that if students do not understand whether something is or is not a breach of academic dishonesty, they must consult with the instructor prior to undertaking the activity.
2. **The Student's Role in Academic Integrity**
 - Taking responsibility for his/her own actions both positive and negative.
 - Understanding the consequences of both positive and negative behaviors to all stakeholders: oneself, the institution, the faculty and management, the assessment process, and fellow students.
 - Engaging in actions to change behavior that is negative.
 - Changing one's thinking at a deep level leading to positive changes in one's actions.
 - Becoming a positive role model for others by one's actions.

Presented to Academic Affairs Executive Council, December 7, 2011

Presented at Meet and Discuss, April 18, 2012

Approved by the Provost, July 27, 2012

TOP

Academic Restart

An undergraduate student who has been academically readmitted to the institution and is returning to the institution from an academic suspension or dismissal may apply for Academic Restart. Under Academic Restart, all Slippery Rock University grades and credits for courses taken prior to reinstatement to the institution will not be applied to grade point average or credits earned calculations. The student should contact Financial Aid to determine how his/her aid may be impacted by Academic Restart.

Conditions

1. A student must sit out at least five years before being eligible for Academic Restart.
2. A student will be placed on provisional status for one semester of full time study, or until he/she has attempted 15 semester hours if attending part time. A student must achieve a minimum cumulative grade point average of 2.000 by the end of the period of provisional status. Failure to achieve the 2.000 minimum cumulative grade point average will result in permanent dismissal from Slippery Rock University.
3. All grades for courses taken prior to the point at which Academic Restart is granted will remain on the academic transcript and academic history. The grades and credits earned prior to the Academic Restart action will not be applied to grade point average or credits earned calculations.
4. A student may be reinstated only once under the provisions of the Academic Restart program.

Provisions

1. If the student has attended other institutions since their withdrawal, suspension, or dismissal, transfer credits and credits by exam may be considered to meet graduation requirements. Official transcripts/score reports will be forwarded by Academic Services or the appropriate Dean's office to Transfer Admissions for formal evaluation and posting of credits to the degree audit.
2. A student who is reinstated under the provisions of the Academic Restart program retains the right to utilize course repeat options as specified by University policy.
3. An Academic Restart Appeal is submitted for consideration to the Dean of the college or the Office of Academic Services (Exploratory). At the discretion of the College Dean, the appeal may be referred to the Office of Academic Services. The Dean of the college or the Office of Academic Services forwards a recommendation to the Provost and Vice President for Academic Affairs. Any exception to these procedures must be approved by the Provost and Vice President for Academic and Student Affairs or designee.

Students must apply for Academic Restart through their College Dean's office or the Office of Academic Services (Exploratory students). After applying, their previous academic record will receive a full review by the College Dean or the Office of Academic Services and the Provost/Vice President for Academic Affairs or designee. Students can be re-admitted only once under the Academic Restart program. Academic restart can only be reversed if the student does not enroll at the institution.

Students interested in being considered for Academic Restart should complete the restart appeal form and the readmission packet which consists of: the readmission application, restart form, official transcripts from all institutions attended after leaving SRU, and a written narrative from the student describing academic goals upon return to SRU as well as a plan to ensure academic success. A restart appeal should be completed at the same time as the student is being considered for readmission to the University.

TOP

Attendance Policy

The faculty, staff, and other resources of the University are furnished for the education of students who attend the University. A class schedule is provided for students and faculty so that a reasonably orderly arrangement for instruction is facilitated. Class attendance is important for the benefit of students. Traditionally, attendance policies for individual classes have been determined by the instructor and communicated to the class at the first meeting and through the syllabus. The University believes that class attendance, preparation, and participation are integral components of student success. It is unusual for students to be successful in a class without attending, preparing, and participating regularly.

Therefore, the faculty and administration strongly encourage students to attend every class session, to spend at least two hours in review and preparation for each hour in class, and to participate fully in all aspects of the class.

Given that, it is the policy of the University to encourage class attendance, all instructors should organize and conduct their courses with this policy in mind. Students should attend every class for which they are scheduled and should be held responsible for all work covered in the courses taken. In each case, the instructor should decide when the class

absence affects a student's scholastic attainment. Students whose absences cause them, in the judgment of the instructor, to become deficient scholastically, may run the risk of receiving a failing grade or receiving a lower grade than the students might have earned had they been in regular attendance.

Instructors should provide, within reason, an opportunity to make up work for students who miss class for curricular and extracurricular activities such as class or club field trips, choir trips, and athletic contests, etc.). However, if the instructor considers such scheduled trips to be hurting a student's scholastic performance, the instructor should discuss the matter with the students, and if need be with the person responsible for the conflicting activity.

If an instructor requires an out-of-class activity that conflicts with a regularly scheduled class, students should discuss this matter with the instructor requiring the out-of-class activity. In these cases the students are to attend the regularly scheduled class and should be given the opportunity by the instructor requiring the out-of-class activity to make up the missed work or to be given an alternate assignment in lieu of the missed out-of-class assignment.

Instructors also should provide, within reason, an opportunity to make up work for students who miss classes for other legitimate but unavoidable reasons. Legitimate, unavoidable reasons are those such as illness, injury, death within the family, other family emergency, military service, or religious observance. When a class, exam, presentation, or assignment will be missed due to an unavoidable absence, the students should contact the instructor as soon as the unavoidable absence is known to discuss ways to make up the work.

An instructor might not consider an unavoidable absence legitimate if the student does not contact the instructor before the evaluative event. Students will be held responsible for using only legitimate, unavoidable reasons for requesting a make-up in the event of a missed class or evaluative event. Faculty may request documentation related to the absence from the student. Requests for missing class, exams, presentations, or assignments due to reasons that are based on false claims may be considered violations of the policy on Academic Integrity.

Auditing Courses

Students desiring to audit courses (no credit awarded) must receive approval of their adviser. Normal registration procedures must be completed, then a form to have the grade option changed must be submitted to the Office of Academic Records and Registration. The cost of auditing courses and taking courses for credit are the same. Students may not change from an audit status to a graded status (A-F and P/NC) or vice versa after the second week of the Fall and Spring semesters. Grade option deadlines vary for summer and winter sessions. Since no credit is awarded, audited courses do not meet any graduation requirements.

Change of Major

Forms for changing majors may be obtained in the offices of the deans, Academic Records and Registration, academic departments or the Academic Advisement Center. Students are reminded that they must meet the major academic requirements that are in effect at the time they declare a new major.

Chosen Name Policy

The university recognizes that many members of its community use first/middle names other than their legal names first provided to the university to identify themselves. For some students, a chosen first/middle name may be an important component of their identity.

Therefore, the university has established this policy and procedures that allows students to indicate their chosen first/middle names to the university community even if they have not changed their legal names. While anyone is welcome to use a chosen first/middle name, this option has been developed to respond to the needs of international students, transgender people, gender non-binary, and others who choose the use of a nickname. These may include individuals who prefer to use:

- a middle name or nickname instead of a first name;
- an anglicized name;
- a name to which the individual is in the process of legally changing; or
- a name that better represents the individual's gender identity.

Chosen first/middle name – A chosen first/middle name is defined as an alternative to the individual's legal name as designated by the individual in university systems.

Legal name – A person's legal name is the name they use for official governmental documents, such as licenses, passports, and tax forms.

A student chosen first/middle name will be used instead of the person's legal name in select university - related systems and documents as listed below. The legal name will be used in all university - related systems and documents related to official university records as listed below.

You may elect to use chosen first/middle names in the following systems and records:

- Student Identification Cards
- Official Student Email Display Name
- Diplomas
- Commencement Programs
- Commencement Cards
- Advising Profile
- Class List (in Banner)
- D2L

Slippery Rock University is working diligently with our software vendors to promote chosen name in marked areas. Legal names will continue to be used for official university records including, but not limited to the following:

- Legal Documents and Reports Produced by the University
- Student Account Statement (Bills)
- Financial Aid and Scholarship Documents
- Transcripts
- Enrollment Verifications
- Degree Verifications
- Student Employment Documents
- Paychecks, W2s, and other Payroll documents

*Denotes in progress for chosen name

Procedures:

Individuals seeking approval for chosen name can contact the Office of Academic Records and Registration in person or find the Chosen First/Middle Name document from the Academic Records "Forms" link on the web. Upon completion of appropriate paperwork and approval, changes will be made to necessary systems. It may take upwards of four business day for final changes to take place. The individual may revoke the request during the first seventy-two hours.

Please note that students will only be permitted to make one chosen name request during the student's career at SRU.

Sanctions:

Chosen first/middle name requests will be denied or revoked when the name is deemed inappropriate including, but not limited to, avoiding a legal obligation, fraud, obscene language, or misrepresentation. Appeals of the chosen name request will be made to the Associate Provost for Enrollment Management. Reports of such activity will be handled pursuant to University policies and procedures and applicable law. Depending on the individual and circumstances involved this could include the offices of Human Resources, Office of Student Conduct, Office of Diversity and Equal Opportunity, Office of Student Success, Residence Life Office, University Legal Counsel, and/or appropriate law enforcement agencies.

Responsibility for Implementation:

All members of the University Community are responsible for administering this policy.

Scope of the Policy:

This policy applies to all University students.

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Classification of Students

Undergraduate students are classified according to the number of semester credits completed/ including transfer credit and credit by exam.

Senior II	105 semester credits or more
Senior I	90-104 semester credits

Junior II	75-89 semester credits
Junior I	60-74 semester credits
Sophomore II	45-59 semester credits
Sophomore I	30-44 semester credits
Freshman II	15-29 semester credits
Freshman I	0-14 semester credits

Classification questions are to be directed to the Office of Academic Records and Registration.

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Continuous Registration

The following Basic Requirement courses are subject to the university's continuous registration policy:

Liberal Studies Program	Rock Studies Program
Beginning Algebra	Beginning Algebra
Civil Discourse (COMM 200)	Civil Discourse (COMM 200, POLS 235, PHIL 111)
Critical Reading or Intro to Literary & Cultural Studies	Critical Reading
Critical Writing	Critical Writing
	Quantitative Reasoning
	University Seminar

These courses will be graded as A, B, C, or NC (no credit). If an "NC" is earned, students must repeat the course during their next semester of enrollment if seats are available, and must continue taking the course until it is passed with a grade of "C" or better.

After the drop/add deadline, students are not permitted to drop or withdraw from any of the Basic Requirement courses listed above.

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Course Levels

The following course numbering system is used: 100-199 are freshman level courses; 200-299 are sophomore level courses; 300-399 are junior level courses; 400-499 are senior level courses. Graduate courses are numbered 500-899. With approval of the dean, juniors and seniors having a 2.500 cumulative grade point average may enroll in 500 numbered courses for undergraduate credit. Only seniors with their dean's permission are permitted to register for graduate credit in courses numbered 500 and above. Post-baccalaureate students may take 500 level courses for undergraduate credit, and, with the permission of the dean of their college, 500 or 600 level courses for graduate credit. 600 - 899 level courses may not be taken for undergraduate credit.

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Credit by Examination

Students may qualify to earn a maximum of 45 credits by making satisfactory scores on tests administered through special examination programs, and thereby earn credit or be exempt from certain college courses. Students may not repeat a course by using Credit by Examination if they originally took the course on a graded (A-F), P/NC, P/F, or audit basis. Credits earned by examination may not be used as part of the students' final 30 credits to be earned at the university. For further information please go to the Office of Academic Records and Registration Credits by Exam web page.

- The Advanced Placement Program (AP) of the College Entrance Examination Board permits high school students to earn college credits at their schools while attending high school. Students must first take an advanced placement course prior to the advanced placement exam. Scores of three (3) or higher will normally be awarded college credit. Some departments require a score of 4 or 5. High school counselors may assist in this procedure.
- Departments at the university offer credit by examination for some courses. Approval for these tests should be secured from the faculty adviser, instructor, and appropriate departmental chairperson. A "Credit by Exam" form is available in the Office of Academic Records and Registration for students wishing to avail themselves of the university's Credit by Exam program.
- The College Level Examination Program (CLEP) is administered by The College Board. This program is open to all students who meet the eligibility criteria. Under the program, students who feel their knowledge of certain subjects is extensive may elect to take the CLEP exams, which are of two types: general and subject. The general examinations are designed to reflect the learning that ordinarily takes place in the students' first two years of college. The subject examinations are designed to reflect the more specific knowledge which students may have acquired. General examinations each carry 6 credits. Subject examinations each carry 3-4 credits. Upon successfully passing an examination with a score at or above the American Council on Education's recommended minimum score, students will receive credit for the corresponding course(s), which permits registration in more advanced courses. Information on CLEP is available from the Office of Academic Records and Registration and at the following website: www.collegeboard.com/clep

- The university also awards credit for a limited number of Excelsior College, ACT (PEP:Regents College) exams and DSST exams offered by the Armed Services. Students may contact the Office of Academic Records and Registration for a list of acceptable Excelsior, PEP and DSST exams.

Credit for Military Service

Slippery Rock University awards undergraduate college credit for military education and occupational training based on the recommendation of the American Council on Education (ACE), which is outlined in the ACE Military Guide.

Students will be considered for military credit by forwarding a Joint Services Transcript (JST) or a transcript from the Community College of the Air Force (CCAF) to the Transfer Admissions Office at the University.

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Dean's List

Undergraduate students who earn a semester grade point average of 3.5 or higher on a schedule of at least 12 newly earned credits will achieve the Dean's List as long as their cumulative GPA is at least 2.0. Students teachers may achieve Dean's list status if they have earned 90 or more credits and have a cumulative GPA of 3.50 or higher at the end of the semester in which they student taught. P/NC and P/F courses will not be computed into the 12 credit-hour minimum. During the Academic honors Convocation, these students will be formally presented to the university community. There is no Dean's List during the summer or winter sessions. Post-baccalaureate and graduate students are not eligible for the Dean's List.

Instructional Method

Blended courses are currently defined as any course whose content is taught between 30-79% online. Web-based courses have between 80-100% online content. Web-based courses must be approved by the UCC and Academic Dean. Blended courses must be approved by the Academic Dean.

Blended courses are denoted on the master class schedule by the instructional method as follows:

BL = 51-79% online

30 = 30-50% online

Web-based courses are denoted on the master class schedule by the instructional method as follows:

80 = 80-99% online

OL = 100% online

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Military Absence Policy

Slippery Rock University requires both students and faculty members to approach excused absences and matters of class attendance in a manner that is cooperative, realistic, and impartial.

Faculty members are required to provide an alternative opportunity or offer equivalent credit for a student to complete missed coursework due to a military-related absence, without prejudicial influence. (ex. Exam, quiz, in class work, presentation, etc.)

Students who have received advanced notification orders are required to provide documentation for their military-related absence two weeks prior to the absence when feasible; however, students should turn in documentation as soon as the orders are received. Whenever possible, students are required to be proactive by turning in pre-assigned coursework before their military-related absence begins.

Any student who has military commitments the weekend before Final Exams week (and such duty can occur any time between Thursday and Tuesday), the student's first exam day (possibly first two exam days, depending on the return day) will be rescheduled to allow a two-day study period.

A student who must miss numerous class meetings due to a military-related obligation is strongly encouraged to create a Military Absence Work-Plan with the faculty member for completing the missed coursework. However, either party can submit a work plan at any time. Creating this work-plan will ensure clear communication between student and faculty member; failure to complete this work-plan may negatively impact the student.

Once developed, the student and faculty member will sign the Military Absence Work-Plan that details the expectations for successful completion of coursework. If the length of absence & circumstance(s) challenges the student's ability to successfully complete the agreed-upon work-plan and to remain current with coursework, it may be in the student's best interest to utilize the Armed Forces Leave of Absence Withdraw option (Withdrawal with grade of "M").

Appeal Process: If the student and faculty member cannot agree on a work-plan or any part of the work-plan, such as a "reasonable" length of absence, the academic department chairperson should be contacted. If the work-plan cannot be resolved at the academic department level, the student is required to contact the academic dean of the college where the course resides.

The Military Absence Work-Plan must include the following information but can take any format the student and faculty member would like to utilize:

- Faculty member name
- Student name
- Course name
- Length of military-related absence
- Detailed list of missed coursework
- Due date for each assignment
- Signatures of both the faculty member and the student
- Results of not meeting the due dates of the work-plan

The Military Absence Work-Plan will be kept in the faculty member's student record and filed with the Office of Academic Records & Registration. The student will also receive a copy.

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Writing Outcomes for Slippery Rock University Graduates

1. Programs may ensure that their graduates attain the outcomes for writing ability determined for their disciplines through any of the following methods:

- a. The outcomes could be demonstrated through work completed in a number of courses. Faculty in a program would identify the courses and the number of courses that could ensure graduates would attain the designated writing outcomes.

- b. Each program could designate course(s) either within the major or outside the major that students would need to complete in order to attain the writing outcomes for their major program.
 - c. The program's faculty could be charged with incorporating writing outcome in all courses within a program. Writing outcomes for the program would be accomplished through the practice of writing within the discipline throughout the program and demonstrated through production of a graduation portfolio during the senior year. The portfolio could be graded anew, or consist of already graded completed writing.
 - d. A program could use a combination of any of the above methods to ensure its graduates' attainment of the writing outcomes designated for the program.
2. Writing outcomes required of graduates of a major program should always be determined by the faculty teaching within the program; those same faculty should always determine whether the writing outcomes are being met.
3. The university assessment core committee will evaluate and approve each major program's plan to implement and assess writing outcomes for the program's graduates. Each plan should include the following as appropriate:
 - a. A rationale for the method used to determine the graduation writing outcomes that would include accreditation standards and/or best practices in the discipline.
 - b. A description of the graduation learning outcomes for the program.
 - c. The curriculum for the program.
 - d. A rubric that will assess the plan's coherence with the university's, accreditation agency's, and/or discipline's stated writing outcomes for graduates.
 - e. If a course or set of courses is chosen, course outline(s) highlighting graduation writing outcomes should be submitted.
 - f. If a graduation portfolio is chosen, the rationale should specify the writing outcomes targeted and an explanation of how they will be demonstrated by the student in the portfolio presentation.
4. The university will provide for support to assist programs in the development of implementation and assessment plans, and in faculty development regarding writing instruction within a discipline. This support may come from the Center for Excellence in Teaching and Educational Technology, the university's assessment core committee, or some other entity developed for the purpose of enhancing writing outcomes among SRU graduates. The Writing Center will continue to provide support for students as they develop their writing abilities.

Degree Requirements

Academic Certificates

Slippery Rock University offers certificates at the undergraduate and graduate levels. A certificate is a statement of recognition on the academic record of an organized set of courses or short program of study not culminating in a degree. Certificates are not the same as certifications or licenses, which typically are awarded by a third party outside the University. Some certificates were formerly known as Letters of Completion.

POLICY

Certificates will have a minimum of 9 graduate credits or 12 undergraduate credits. At least six credits must be completed through Slippery Rock University (either on campus or online). All graduate certificate credits may share

with the graduate major. No more than six undergraduate certificate credits may share with the undergraduate major, not including Liberal Studies/Rock Integrated Studies and elective courses.

Certificates may be completed as part of a full degree program, or may be completed as a non-degree student. Students completing certificates as non-degree students are not eligible for financial aid. Individual certificates may have additional requirements regarding application of transfer credit and age of credit.

Academic Minors

Slippery Rock University offers minors at the undergraduate level. A minor is a set of courses that meet specified guidelines and is designed to allow a sub-major concentration in an academic discipline or in a specific area within a discipline. The minor is recorded on the students' transcripts, providing the students have maintained at least a 2.0 minimum quality point average (some minors may require a higher GPA) for all coursework required for the minor.

POLICY

A department shall establish its own policy regarding which courses shall count toward an academic minor subject to the following limitations:

- The minor shall have a minimum of 18 credits. (PASSHE)
- The minor shall have a minimum of 6 credits from SRU. (SRU)
- The minor shall have a minimum of 6 upper division credits at the 300/400 level.(Exceptions to this one requirement may be made by the Chancellor on a case by case basis.) (PASSHE)
- No course needed for the minor may be taken Pass/Fail. (SRU)
- Courses counted in a minor can also be used to satisfy the Liberal Studies/Rock Studies requirements. (SRU)
- At least 6 credits in the selected minor shall be outside the requirements/electives counted in the student's major. (SRU)
- The requirements for all minors must be completed prior to the awarding of the first baccalaureate degree. Once graduated, students may not return and add additional minors to their undergraduate record. (SRU)
- Students may also elect more than one minor course of study. (SRU)
- Students may be awarded more than one minor so long as they complete the requirements for each minor. (SRU)

Students are typically responsible for meeting the minor requirements in effect at the time they enter the university or change majors. When students leave the university and are later readmitted, they become responsible for meeting the minor requirements in effect at the time they are readmitted. If students would benefit from meeting a set of minor requirements other than those in effect at the time they declared their minor or were admitted/readmitted to the university, their adviser may request of the student's academic dean that a different set of minor requirements be met.

Application for Graduation

Students must make formal application to the Office of Academic Records and Registration by October 1 (Fall), March 1 (Spring), June 15 (Summer), or December 1 (Winter). Online applications for all terms, except winter, are available through the MySRU portal and must be submitted prior to the published deadlines above. Late applications must be submitted on paper applications available on the Academic Records and Registration website or in the office

at 107 Old Main. No diploma fee is required. Students who are eligible for a Pennsylvania teaching certificate should apply to the College of Education at the time they apply for graduation. A certification fee is payable at the time of application. The College of Education will provide certification details upon request.

Students who meet all graduation requirements in a given term but fail to apply for graduation until after the semester ends will be graduated at the end of the semester in which their application is received in the Office of Academic Records and Registration , not the term they completed their coursework.

Completion of Degree/Certificate Requirements

It is the students' responsibility to complete all degree/certificate requirements and to know the university's requirements for graduation. This is not the responsibility of the students' advisers.

Students must meet all graduation requirements by the official end of the semester in which they have applied to graduate. Failure to do so (Incomplete grades in any course or "X" grades in required courses, no application, etc.) will result in the updating of the students' graduation date to the end of the term/year the work is eventually completed.

Effective with undergraduate students entering January 2010 and thereafter, at least 50% of their MAJOR credits must be earned at a PASSHE university. Students originally admitted before January 2010, even if they leave the university and are readmitted after January 2010, will not be affected by this new policy.

Collaborative programs will be identified such that residency can be met consistent with the collaborative agreement.

Students enrolled in summer internships will have their graduation date backdated to the end of summer if they complete their internships and are graded by September 30. Students not meeting this deadline will be graduated in the following December, or later, upon completion of graduation requirements.

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Computer Competency Requirement

The goal of the computer competency requirement is to ensure that students can effectively use computers and technology to succeed in an information based society. The purpose of the competency test is to determine if new SRU students have already acquired the faculty-designated minimum level of computer competence. The topics on which students will be tested are computer hardware, system software, application software, social impact, technology and the web, networks and security and privacy. We believe that students need to have a minimum level of competence to achieve the greatest success during their academic career. Students can demonstrate computer competency by either passing the computer competency exam or passing the one credit CPSC100, Introduction to Computing for Liberal Arts or any of the following three-credit courses: CPSC110 (Computer Concepts), CPSC130 (Introduction to Information Systems), CPSC210 (Productivity Software), or PE 202 (Technology for PETE). Upon the successful completion of the exam or one of the courses, Slippery Rock University will certify graduates as having achieved a minimum level of computer competency. Some departments may require students to take additional courses to achieve computer competency for a specific academic major. Students may meet the university's computer competency requirement by passing a computer competence examination administered by the Computer Science department 724-738-2040.

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Exit Examinations

Some students are required to take specific standardized examinations in liberal studies and/or their major area of study before their degrees will be conferred.

Graduation Requirements

1. All undergraduate degree programs require a minimum of 120 credits.
2. All students are required to earn a minimum overall GPA of a 2.000 to graduate.
3. Students must complete 30 of their final 60 credits in residence at SRU. In addition, individual departments may establish residency requirements for their majors and minors. Students should check with their academic adviser to determine the requirements for their academic program
4. Students must complete a minimum of 45 credits of Liberal Studies coursework.
5. Students must complete 48 credits of upper-division coursework. Thirty-nine of the 48 credits must be at the 300-level or higher, the additional 9 credits may include courses requiring a 3 credit prerequisite. At least 24 of the 48 credits must be completed at SRU.
6. Students must complete at least half their major (15 credit minimum) in 300 or higher level courses. Students must also complete at least 50% of their major at a PASSHE university.
7. Bachelor of Arts degrees require language proficiency at the 103 class level. Exemption by placement or examination is possible.
8. Students must complete at least 60 credits at SRU to be considered for Latin Honors at the time of graduation.

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Minimum Credit Hour and Quality Point Requirements

All degree programs require a minimum of 120 credits and a minimum overall GPA of a 2.000. At least 30 credits must be completed to earn a major and at least 18 credits must be completed to earn a minor. The majority of programs require a major GPA of 2.000; some programs require a higher average. This information is available from the department adviser or chairperson. To be eligible for teacher certification, students must have a 3.000 cumulative average in all university coursework.

Modern Language Requirement for BA Degree

Proficiency at the 103 class level of a modern language, or the equivalent, is required for all Bachelor of Arts degree candidates. Exemption by placement or examination is possible. Students wishing to earn a Bachelor of Arts degree, whether it is associated with their first or second major, must complete the university's modern language proficiency requirement at or above the 103 level. Post-Baccalaureate students pursuing a Bachelor of Arts degree must also complete the modern language requirement.

Posthumous Conferral of Degree

Slippery Rock University may recognize a student's work by conferring a degree or special certificate posthumously. In the event of an accidental death or fatal illness of a student, the university may confer the degree or certificate. The student will have completed all or nearly all of the requirements for a degree. The student will have completed at least one year at SRU for the award of a certificate.

Residency

To qualify for graduation, all students must complete 30 of their final 60 credits in residence at Slippery Rock University. In addition, at least 24 credits of upper division course work, 12 credits within the student's major and 6 credits within a minor or certificate must be earned in residence at Slippery Rock University. Students should check with their academic adviser to determine the residency requirement for their specific academic program.

Effective with undergraduate students entering January 2010 and thereafter, at least 50% of all major credits must be earned at a PASSHE university. Students originally admitted before January 2010, even if they leave the university and are readmitted after January 2010, will not be affected by this new policy.

Collaborative programs will be identified such that residency can be met consistent with the collaborative agreement.

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Earning 2 Degrees or 2 Majors

Undergraduate students seeking to complete a second baccalaureate degree will be required to complete at least 150 credits and the academic requirements of both degrees to earn two baccalaureate degrees at the same commencement ceremony. Students may earn two different degrees (ex. B.A. and B.S.) or students may earn two of the same degree (ex. B.S. and B.S.).

Students wishing to earn a Bachelor of Arts degree, whether it is associated with their first or second major, must complete the university's modern language proficiency requirement at or above the 103 level.

Students may still earn two majors and one degree. To earn two majors, students must complete at least 120 credits and all the academic requirements of both majors.

Exceptions to this policy must be approved by the student's chairperson and dean of the second degree.

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Second Baccalaureate Degree

If students wish to earn a second baccalaureate degree after earning their first baccalaureate degree, students must enroll as a Post-Baccalaureate student and will need to complete a minimum of 30 new credits in his or her selected major program above and beyond his or her first undergraduate degree. Post-Baccalaureate students earning a second degree will meet all departmental requirements for the degree with respect to required GPA, credit and courses for a major in that department, as well as meeting degree requirements with respect to the GPA and courses required for the requested degree.

Exceptions to this policy must be approved by the student's chairperson and dean of the second degree. As a post baccalaureate student, please check with the Financial Aid Office for available financial aid.

Upper Division Course Work

All degrees require the completion of a minimum of 48 credit hours of upper division course work. Thirty-nine of the 48 credits must be at the 300 level or higher, the additional 9 credits may include any course requiring a 3 credit hour prerequisite. At least 24 of the 48 credits must be completed at Slippery Rock University.

At least half a student's major must consist of upper division course work (only 300-level and above).

Students with fewer than 45 credits (Sophomore II) must have the permission of the instructor to enroll in 300 and 400 level courses.

Credit Hour Policy

All courses offered for credit at Slippery Rock University (SRU) toward the completion of a degree and/or certificates are in line with applicable state and federal regulations related to the assignment of credit hours. The following credit hour policy is based on the guidelines set forth by the PASSHE Board of Governors Policies, System Academic and Financial Procedures and Data Collection Definitions: Reference Number, SA-040. PASSHE Policy: Policy 1990-06-A: Academic Degrees, 1985-01-A: Requirements for Initiation or Change of Credit-Based Academic Programs, Policy 1999-01: The Academic Passport and Student Transfer Policy.

This policy will be reviewed every three years to ensure continued relevance and alignment with University goals by the ASA Policy Review Committee.

Credit Hour Assignment

Slippery Rock University's academic year is divided into Fall and Spring semesters of approximately 15 weeks each. Summer, winter and special accelerated sessions may vary in length. A credit hour at Slippery Rock University reflects the Carnegie unit, what has served as the traditional unit of measure in higher education. One semester credit is equivalent to one hour (50 minutes) of faculty instruction one time per week for 14 weeks (for a total of no less than 700 minutes) along with 120 minutes for the final examination, and a minimum of two hours of student preparation time outside of the classroom each week per credit hour. A typical 3 credit hour course will meet 2,220 minutes.

An equivalent amount of work is required for lectures, laboratory work, internships, practicum, studio work, accelerated, hybrid and online education, and other academic work leading to the award of credit hours. Departments may determine contact time over the minimum requirements as needed to achieve student learning goals and maintain compliance with programmatic accreditation bodies.

The Institution's University Curriculum Committee (UCC) provides a systematic review, evaluation, and change of the curriculum at the university level, in compliance with the APSCUF Collective Bargaining Agreement (CBA). Assignment of credit hours for courses are determined by the faculty and program administrators based on expertise, learning objectives, and programmatic accreditation requirements. UCC is charged with review of all courses and curricula. Reviewed courses are sent to the Office of the Provost and once approved are sent to the Office of Academic Records for inclusion in the course catalogs. Academic Records reviews each schedule course to ensure that credit hours assigned meet the minimum number of minutes required. Discrepancies are brought to the attention of the appropriate Academic Dean/Department for correction or clarification.

Credit Hour Assignment by Course Type

Lecture and Seminar—courses with multiple students that meet to engage students in various forms of group instruction. These courses are generally awarded 1-3 credit hours and meet for 700 minutes (plus 120 minutes final exam time, for a total of 820 minutes) and 2100 minutes (plus 120 minutes final exam time, for a total of 2220 minutes).

Laboratory— 1 credit science labs included in the Liberal Studies requirement meet for a minimum of 75 minutes per week. Within the sciences labs associated with majors meet for a minimum of 110 minutes per week. Departments/programs may set higher standards in accordance with professional organization and accreditation bodies.

Internship, Practicum, Field Experience, & Student Teaching—3-12 credits hours with the minimum standard of 40 clock hours per credit hours.

Studio and Lessons—Departments may Departments/programs may set standards in accordance with professional organization and accreditation bodies.

- Visual art studio courses award one credit hour for a minimum of one hour and fifty-five minutes of scheduled supervised studio work. A 3 credit studio class would meet for a minimum of 4,620 minutes of class time with a 120 minute final exam/experience for a total of 4,740 minutes during a 15 week semester.
- Music lecture/seminar courses are awarded 3 credits consistent with the above stated minimum of 2,220 minutes per 15 week semester inclusive of the 120 minute final exam/experience.
- Music courses awarding 2 credits meet for a minimum of 1,520 minutes per 15 week semester inclusive of the 120 minute final exam/experience. Music courses awarding 1 credit (ex. Intro to Music Education) meet for a minimum of 1,520 minutes inclusive of the 120 minute final exam/experience. Performing ensembles meet for differing lengths of time, ensembles are awarded one credit meet for a minimum of 1,470 minutes inclusive of the final exam/experience.
- Applied Instruction in Music (lessons) are awarded one credit, and students receive $\frac{1}{2}$ hour weekly instruction per week, for a total of seven individual instructional hours during a 15 week semester. This contact is in addition to the time spent in studio and master classes. Music performance majors are awarded three credits, and students receive one hour of weekly instruction per week, for a total of 15 individual instruction hours during a 15 week semester.

Independent Study/Individualized Instruction – Courses delivered through these methods are required to meet the same credit hour guidelines and learning outcomes as traditional course delivery options.

Accelerated Courses – Any courses offered outside of a standard 15 week semester with equivalent learning outcomes and course content must meet an equal minimum amount of instructional and out of class student work to as the examples above within an accelerated time frame.

Hybrid Courses – Any courses offered in a blended format with a minimum of 1 on-site face-to-face class sessions and a minimum of one online session, both with direct faculty contact. In all instances, these courses must meet the total amount of instructional and out of class student work as courses offered through traditional delivery methods.

Online Courses – Any courses offered exclusively online without any face-to-face meetings. These courses have the same learning outcomes and substantive components with an alternative delivery method. Contact time is satisfied through a variety of online interactions and assignments. In all instances, these courses have learning outcomes that

meet the total amount of instructional and out of class student work time as courses offered through traditional delivery methods.

Out of Class Student Expectations – For each credit hour earned, students should expect to spend a minimum of 100-150 minutes preparing/studying outside of class.

Transfer Credits - Transfer credits are evaluated by university administrators following the guidelines of the Middle States Commission on Higher Education, the Pennsylvania State System Board of Governors and program specific accreditation body requirements. Transfer policies and transfer course equivalencies are detailed on the university web site.

Instructional Contact Time – The measure of instructional contact time may be adjusted to reflect different formats of study or length of academic sessions as per the APSCUF CBA. These adjustments are reflective of the intended student learning outcomes and established equivalencies of the semester credit hour set by the institution and reasonably reflect the requirements established by MSCHE.

Credit Hour Definition Guidelines: Slippery Rock's policy also aligns with the following definitions and guidelines from the Commonwealth of Pennsylvania, the US Department of Education, and the Middle States Commission on Higher Education Accreditation.

United States Department of Education (USDE)

The definition as published in the regulations is as follows:

"Credit Hour: Except as provided in 34 CFR 668.8(k) and (l), a credit hour is an amount of work represented in intended learning outcomes and verified by evidence of student achievement that is an institutionally established equivalency that reasonably approximates not less than – (1) One hour of classroom or direct faculty instruction and a minimum of two hours of out of class student work each week for approximately fifteen weeks for one semester or trimester hour of credit, or ten to twelve weeks for one quarter hour of credit, or the equivalent amount of work over a different amount of time; or

(2) At least an equivalent amount of work as required in paragraph (1) of this definition for other academic activities as established by the institution including laboratory work, internships, practica, studio work, and other academic work leading to the award of credit hours."

Middle States Commission on Higher Education Accreditation (MSCHE)

The Commission's Requirements of Affiliation stipulate that accredited institutions comply with all Federal, state, and other relevant government policies, regulations, and requirements, which generally include requirements and expectations for degrees. The Commission's accreditation standards, particularly Standards 11 (Educational Offerings) and 14 (Assessment of Student Learning), require evidence of:

- academic study of sufficient content, breadth, and length;
- levels of rigor appropriate to the programs or degrees offered;
- statements of expected student learning outcomes that are consonant with the standards of higher education and of the relevant disciplines;
- direct evidence of student learning; and
- assessment results that provide sufficient, convincing evidence that students are achieving key institutional and program learning outcomes.

MSCHE Credit Hour Policy

Commonwealth of Pennsylvania, Pennsylvania Code, Title 22, Subpart C, & 31.21

(a) The curricula must provide the opportunity for the achievement of the stated objectives of the institution, as related to its statement of philosophy and mission, and must be structured in a group of coherent, integrated degree programs.

(b) Degree requirements stated in this section may be stated in terms of semester credit hours or quarter credit hours, as determined by the institution and conforming to generally accepted academic practices. General education, as defined in this section, refers to the curricular inclusion of humanities, arts, communications, social sciences, mathematics, technology and science courses in support of the mission of the institution. A semester credit hour represents a unit of curricular material that normally can be taught in a minimum of 14 hours of classroom instruction, plus appropriate outside preparation or the equivalent as determined by the faculty. A quarter credit hour represents a unit of curricular material that normally can be taught in a minimum of 10 hours of classroom instruction, plus appropriate outside preparation or the equivalent as determined by the faculty.

(1) An associate degree exclusive of a specialized associate degree must require the satisfactory completion of a minimum of 60 semester credit hours, which includes a minimum of 20 semester credit hours of general education, or a minimum of 90 quarter credit hours, which must include a minimum of 30 quarter credit hours of general education.

2) A specialized associate degree must require the satisfactory completion of at least 60 semester credit hours or a minimum of 1,500 clock hours or a Ch. 31 GENERAL PROVISIONS 22 § 31.21 31-13 (366297) No. 464 Jul. 13 a minimum of 90 quarter credit hours. At least 70%, but no more than 80%, of the program must consist of specialized instruction that bears directly upon the employment objectives of the program; and at least 20% of the program must consist of general education.

(3) A baccalaureate degree must require the satisfactory completion of a minimum of 120 semester credit hours or a minimum of 180 quarter credits. Of the total baccalaureate degree program course requirements, at least 40 semester credit hours or 60 quarter credit hours must be in general education and represent a broad spectrum of disciplines in general education.

(4) A first professional degree, except those for the preparation of professional educators, must require the satisfactory completion of a minimum of 60 semester credit hours or 90 quarter credit hours for admission to the degree program and the satisfactory completion of a total minimum of 150 semester credit hours or 225 quarter credit hours for the program. Professional educator preparation programs must comply with Chapter 354 (relating to preparation of professional educators).

(5) A master's degree must require the satisfactory completion of a minimum of 30 semester credit hours or 45 quarter credit hours beyond the baccalaureate level.

(6) The number of semester or quarter credit hours for a degree beyond a first professional or master's degree shall be determined by the faculty and reflect the recommendations of professional associations or National learned societies.

(c) An institution may enter into agreements with other institutions, individuals or other providers of educational services to provide all or part of certain programs on behalf of the institution. A course offered for institutional credit shall be operated directly by or under the control of the institution granting the credit.

(d) To assure academic integrity, an institution shall provide students in a distance education program access to academic and student services, including textbooks, study guides, library and other learning resources, personal interaction with faculty, tutors or other educational personnel by computer, telephone, mail or face-to-face meetings. The institution shall assure integrity of student work and provide opportunity for student assessment. These programs must comply with the regulations that apply to resident-based programs as prescribed in this chapter and Chapters 35, 36, 40 and 42 and conform to generally accepted academic practices for delivery of instruction through distance education.

Drop, Add, Withdrawal

Full Fall and Spring semester courses may be added during the first two weeks of the semester, but permission of the professor is required after the eighth day of the semester (including weekends; excluding holidays). Students desiring to add closed sections of courses for which they have the required pre/co-requisite must always receive the professor's approval. Courses dropped during the first 8 days of the semester (including weekends; excluding holidays) will not be recorded on the students' permanent records. Students may not drop their last course on MySRU and should contact the Office of Academic Records and Registration for assistance. Students may withdraw from full semester classes with a grade of "W" between the second and tenth weeks of the Fall and Spring semesters. The Student's Advisor and Professor must acknowledge the withdrawal on a Withdrawal form (on-campus) or via an email (off-campus). Students will not be permitted to withdraw from full semester classes after the tenth week and will be held accountable and awarded a final grade for all coursework, exams and other work assigned during the final five weeks of the semester. For Fall and Spring courses meeting fewer than 15 weeks and all summer and winter classes, the withdrawal deadline is two thirds of the way through the course's beginning and ending dates. Students may not withdraw from Basic Requirement courses or courses in The Rock section of Rock Studies after the drop period has ended.

Drop/add forms may be used to add classes until the end of the second week of the semester, and until the end of the eighth day of the term (including weekends; excluding holidays) to drop classes. After the eighth day of the semester (including weekends; excluding holidays), students may no longer drop classes, but may withdraw from classes with a grade of "W" by using a withdrawal form.

Students who for exceptional reasons are permitted to drop, add, or withdraw from classes after the university's stated deadlines must receive their respective Dean's/Office of Academic Services' approval.

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Final Examinations

At the end of each semester, all final examinations are to be administered during the time stipulated in the examination schedule, which is printed in the Registration Information Bulletins and online. The decision to give a final examination is the prerogative of faculty members; but if a final examination is given, it is to be administered according to the time as indicated in the examination schedule. The appropriate dean must approve any exceptions to this policy. Classes will meet during the scheduled examination time if no examinations are given.

Freshman Cohort and Student Athlete Graduation Rate

In accordance with the Students Right to Know and Campus Security Act (PL 101-542) as amended by the Higher Education Technical Amendments of 1991 (PL 102-26), Slippery Rock University will publish the graduation rate of its first time, full-time degree seeking undergraduates in each of its Registration Information Bulletins. This information is also available in a more detailed format from the Office of Academic Records and Registration and at the university's Student Consumer website.

Grade Information

Procedure for Filing Grade Appeal

Academic Due Process Procedures

The purpose of the following procedure is to provide students with a system by which to grieve complaints of alleged academic injustice(s) relating to a final grade and/or professional responsibilities.

Students who believe that their final course grade reflect unsubstantiated academic evaluation may initiate and pursue a grade change appeal in accordance with provisions of this document. At the same time, all academic rights and privileges of faculty members are to be honored in this process, which includes careful review of the course syllabus. Changes in final course grades will occur only when, as a result of this grade appeal process, there is clear evidence of unsubstantiated academic evaluation. Because the grade process involves the instructor's judgment of the academic performance of a student the only issue under consideration in the grade appeal process is whether or not the student can present clear evidence that the assignment of the grade was based on factors other than the academic judgment of the instructor.

Some examples of the basis for a legitimate disagreement could include, but not be limited to prejudiced, capricious, or unsubstantiated academic evaluation by the instructor:

1. The instructor did not inform the student of the basis for calculation of grades.
2. The instructor did not calculate the student's grade in accordance with the instructor's stated policy for calculating grades.
3. Significant and unwarranted deviation from grading procedures and course outlines set at the beginning of the course (ordinarily during the first week of the course) or a grade assigned arbitrarily and capriciously on the basis of whim, impulse or caprice.
4. There is an error in the computation of the grade that was not corrected.
5. The student, through no fault of his or her own, was not provided with the same opportunity to complete the requirements for the course in terms, for example, of time, access to materials, or access to the instructor as the other students.

A student may not claim arbitrariness and capriciousness if he/she disagrees with the subjective professional evaluation of the instructor.

Informal Appeal Procedure:

1. The student must discuss the final course grade, grading practices and assignments with the instructor who gave the final grade no later than 10 working days after to beginning of the semester (not summer/winter) following the issuance of the grade. This discussion may eliminate any misunderstandings over the assignment of the grade as relates to the course syllabus. This discussion must occur before the student may file a formal appeal.
2. If the faculty member finds in the student's favor, a grade change form is submitted with signatures and the appeal process is resolved.

If a student and instructor fail to resolve the grade dispute through informal means the student may request a formal grade appeal process by completing a **"Final Grade Appeal Form."**

Formal Appeal Procedure:

Step One

The student must complete and submit the **"student"** portion of the **Final Grade Appeal Form** to the course instructor no later than **15 working days** after the beginning of the semester following the issuance of the final grade. The summer term does not constitute a semester.

The student must retain a copy of the Final Grade Appeal Form for his/her records and send a copy to the department chairperson (or substitute) of the department in which the course is housed. The chairperson of the department evaluation committee shall substitute for the department chairperson IF the department chairperson was the instructor of the course in which the grade is being appealed.

Step Two

The department chairperson (or substitute) notifies the instructor in writing that chairperson is aware that the instructor has received a grade appeal.

If the instructor decides that the final grade is correct, he/she must complete the "**instructor**" portion of the Final Grade Appeal Form, and return it to the student and send a copy to the chairperson (or substitute) **within 10 working days of receipt of the student's appeal**.

If an instructor fails to respond within the allotted time, the appeal shall move to step 3 below.

If a faculty member whose grade(s) are being appealed is no longer employed by the university or is unavailable due to a sabbatical, sick leave, or other reasons during the time period allotted for the appeal process, the appeal should be directed to the chair of the department (or substitute) for review.

Step Three

If the student wishes to appeal further, he/she must submit the original Final Grade Appeal Form (or copy if the instructor fails to respond as described in step 2 above) to the department chairperson (or substitute) and the college dean. This appeal must be submitted **within 10 working days** of the dated instructor's response, or if the instructor does not respond, **within 15 working days** after the appeal was originally filed with the instructor.

The department chairperson (or substitute) will review the appeal **within 10 working days**.

Before the department chairperson (or substitute) determines if the student's complaint provides evidence that the instructor's assignment of the grade was based on factors other than the academic judgment of the instructor he/she will review the appeal with the instructor. The chairperson (or substitute) may also conduct whatever informal investigation seems necessary and should attempt to achieve a negotiated settlement.

A. When Chair Agrees Grade Is Correct

If the department chairperson (or substitute) determines the student's evidence **does not meet** the criteria for a grade appeal, the chairperson (or substitute) will forward his/her decision on the grade appeal to the instructor, student and college dean.

B. When Chair Disagrees that Grade is Correct

If the department chairperson (or substitute) determines the student's evidence **does meet** the criteria for a grade appeal, he/she will offer an explanation on the Final Grade Appeal Form and provide a copy to the instructor.

The instructor must then indicate on the Final Grade Appeal Form whether he/she agrees or disagrees with the chairperson's recommendation, signs and returns the Final Grade Appeal Form to the chairperson **within 5 working days**.

1. If the instructor amends the grade, a signed grade change form is submitted and the grade appeal is ended.
2. If the instructor does not agree to amend the grade or fails to respond in the allotted time, the chairperson (or substitute) submits the Final Grade Appeal Form to the college dean, student, and instructor with his/her recommendation **within 5 working days**.

Step Four

If the dean, upon review of the chairperson's recommendation, also determines the student's evidence **does not meet** the criteria for a grade appeal, the dean will complete and return the Grade Appeal Form to the student with a copy to the instructor and chairperson (or substitute) **within 5 working days**. **The grade appeal process ends.**

If the dean, upon review of the chairperson's recommendation, determines that the evidence is unclear or the student's evidence **does meet** the criteria for a grade appeal, the dean **shall initiate a meeting with the faculty member**. The dean shall review the appeal, can hear evidence by each side, and may collect further evidence as needed.

If **agreement** cannot be reached, the dean will forward the Final Grade Appeal Form to the Provost **within 20 working days**, with his/her recommendation that the grade appeal be referred to a Grade Appeal Board. The dean also forwards a copy of the Final Grade Appeal Form to the student, instructor, and chairperson.

In each of the above statements, the chairperson of the department evaluation committee shall substitute for the department chairperson IF the department chairperson was the instructor of the course in which the grade is being appealed. Should the chair of the evaluation committee not be available, APSCUF will be consulted in the process of choosing a substitute.

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Step Five

A. Composition of the Grade Appeal Board

- Three faculty selected by APSCUF. One from the academic department in which the course is taught. Not the instructor.
- Two managers selected by the provost. One to be the dean of the college in which the course was taught.
- One student selected by Student Government Association. A senior outside the department in which the course is taught.

Normally, each Grade Appeal Board will be appointed to hear one appeal.

Those responsible for recommending board members should be sensitive to race and gender composition.

The Provost will appoint each board and chairperson within the parameters above.

B. Grade Appeal Board Procedures

Once the appeal board has been established, the appointed chairperson of the committee will contact board members, the faculty member, and the student bringing forth the appeal to determine a date to convene the board (within 20 working days) and send them a letter confirming the date and place of the meeting.

At this point, all paperwork and collected evidence will be copied and provided to the members of the appeal board committee in sealed, confidential envelopes. This paperwork and evidence will be assembled by the dean of the college involved in the appeal, reviewed and brought by appeal board members to the appeal meeting. The chair will collect the copies at the end of the meeting.

The procedure for the appeal meeting is as follows:

1. The chairperson of the Grade Appeal Board will call the meeting to order and review procedure.
2. The student will have 10 minutes to present his/her reason for the appeal.
3. The faculty member will then have 10 minutes to explain why he/she feels there is no basis for the appeal.
4. The committee member can then ask questions of the student and/or faculty member to clarify any points.
5. The faculty member and the student are excused and told they will be notified of the decision by letter.
6. The committee discusses and reaches a recommendation by majority vote.
7. The chairperson will notify the President of the University of the recommendation of the committee by memo. The chairperson will notify the student and faculty member of the president's decision by letter. The letter will be copied to the Department Chair and Dean.

Step Six

Students who appeal a grade to a Grade Appeal Board are responsible for maintaining ALL written materials relevant to the appeal, such as papers, examinations, and completed assignments. Further, the appeals board must have access to appropriate documentation and academic records pertaining to the course grade in question. After the appeals process is complete, the only record to be maintained will be the student's final grade.

Each appeals board will make its recommendation to the university president, who may accept or reject the recommendation. Since the university has the power and duty to direct the activities of the institution, nothing in this policy should be construed as to diminish that authority in any way.

Grade Change

Once a grade has been posted, it can only be changed by the professor who originally awarded the grade. If the professor is no longer employed by the university or is not available for some other reason, the request for a grade change should be discussed with the department chairperson. Grade changes must be processed on a grade change form and must be approved by the professor and the chairperson of the department in which the course was offered.

A memorandum of explanation from both instructor and departmental chairperson must accompany any grade change submitted after more than a year has passed since the student received the original grade. This information is submitted to the Office of Academic Records and Registration. Students may not have their grades changed to a withdrawal "W" without their dean's approval.

Grade Release Policy

Students' midterm grades and final grades are available on MySRU.

In accordance with the Family Educational Rights and Privacy Act (FERPA) grades will not be released to a third party (including parents) without the authorization of the student. Students may authorize the release of grades to third parties by authorizing such on MySRU

Grading Symbols and Quality Point Conversion System

A - Excellent	4 grade points
B - Good	3 grade points
C - Satisfactory	2 grade points
D - Poor	1 grade point
F - Failure	0 grade points
I - Incomplete	0 grade points
P - Pass	0 grade points
NC - No Credit	0 grade points
AU - Audit	0 grade points
W - Withdrawal	0 grade points
X - No grade given	0 grade points

Grading System and Policies

Instructors are to inform their students in writing during the first week of classes of their grading procedures and policies, especially explaining how final grades are calculated.

Incomplete Grades

The assignment of an incomplete grade is the prerogative of the faculty and is granted only when extenuating circumstances prevent students from completing the course requirements within the regular time period. Faculty also reserve the right to set any deadline for the completion of the incomplete work; however, students not receiving an earlier deadline will have a maximum of 12 months after receiving the incomplete to finish all coursework and receive a change of grade. If a faculty member does not submit a grade change form within 12 months, regardless of whether or not the student attends the university, the grade will automatically convert to an "F". Requests for extensions of incomplete grades, beyond 12 months, must be submitted by the faculty member and approved by the dean of the college in which the course was offered. Students will not be permitted to graduate with an incomplete grade on their record.

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Pass-No Credit Grades

Students, with adviser's approval, may schedule a maximum of 12 credits of pass-no credit grading in the sophomore, junior and senior years combined. Students must select these courses at registration and cannot change the pass-no credit designations after the second week of the Fall and Spring semesters. For these 12 credits, only free elective courses may be taken on a pass-no credit basis. Pass-no credit courses may not be used to satisfy major, minor, the BA modern language, and the university's liberal studies program requirements. Some selected courses are not included in the 12-credit limitation. Students may not take more than one pass-no credit course during a semester.

Courses taken under the pass-no credit system are not used in computing the student's GPA. Credit for such courses is recorded toward meeting the total credit requirements if the course is passed. A grade of NC (no credit) will be recorded if the course is failed.

Pass-no credit is not synonymous with audit. In pass-no credit, all course requirements must be met.

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Grade Point Average

Grade points for a single course are calculated by multiplying the points assigned the letter grade (A = 4, B = 3, C = 2, D = 1, F = 0) by the number of credits of the course. Total grade points are calculated by adding the grade points earned in each course. The grade point average (GPA) is computed by dividing the total grade points earned by the total number of credits attempted, (repeated courses are counted only once). Grades earned in courses taken at other colleges for transfer are not computed in the grade point average at Slippery Rock University unless the courses were taken with Slippery Rock University's approval as a "Visiting Student" or "Distance Education Student" at another PA State System of Higher Education university. Further explanation concerning the calculation of the GPA may be directed to the student's academic adviser, the Advisement Services Dept. or the Office of Academic Records and Registration.

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X Symbol

The symbol "X" means "no grade given." This symbol will be used only in those rare situations when professors cannot assign students a letter grade or incomplete.

The "X" symbol will not affect the students' semester or cumulative GPA's at the time it is given. However, the "X" symbol must be removed from the students' record prior to the end of the students' next semester of enrollment. Otherwise, it will be converted automatically to an "F" and will then be used in the students' semester and cumulative GPA calculations. The "X" symbol cannot be extended beyond the students' next semester of enrollment.

If graduating students receive an "X" during their final semester of enrollment, they will be permitted to graduate as long as the course in question is not required for graduation.

Name Change

Students may have their names changed on official university records only after submitting an official document (marriage certificate, court record, etc.) or a notarized statement that a name change has occurred and the new name is not being used for any deceptive or fraudulent purpose. Copies of the university's policy and a sample affidavit are available from the Office of Academic Records and Registration.

Notice of Consumer Information Web Site and Annual Security Report

In accordance with the provisions of the Student Right to Know and Clery Acts, students are urged to access SRU's Consumer Information Website (Including campus crime statistics, graduation rates, and Students Rights to Privacy.)

Notice Designating Directory Information

The *Family Educational Rights and Privacy Act* (FERPA), a Federal law, requires that colleges and universities, with certain exceptions, obtain a student's written consent prior to disclosure of personally identifiable information. However, institutions may (not must) disclose appropriately designated "directory information" without written consent, unless the university has been advised by the student that he/she does not wish to have his/her directory information released.*

Directory information, which is information that is generally not considered harmful or an invasion of privacy if released, can, but is not required to be disclosed to outside organizations without the student's written permission.

Slippery Rock University is committed to maintaining the privacy of its students' records and therefore also limits its release of Directory Information for official University purposes only.

Slippery Rock will not release Directory Information for solicitation purposes to 3rd parties from **outside** the university. This includes outside vendors, businesses and organizations unless the university has entered into a contract or agreement with the organization to supply specific service to the university or its students that requires the use of this information.

The Director of Academic Records also carefully screens the release of Directory Information to parties **within** the university to assure that its students only receive correspondence related to the academic and social missions of the institution.

Slippery Rock University hereby designates the following student information as "directory information." Such information may be disclosed without a student's previous consent by the institution for any purpose, at its discretion with the exceptions noted below:

1. Name
2. Addresses (local, permanent, and email)
3. Telephone number (local, cell and permanent)
4. Date and place of birth
5. Program and concentration(s) and minor(s)
6. Student activities, including athletics
7. Weight, height (athletic teams)
8. Dates of attendance
9. Degrees and awards received
10. Date of graduation
11. All educational institutions previously attended
12. Academic awards/scholarships
13. Title of master thesis
14. Number of credits (full- or part-time) for which a student is registered
15. Pictures of students
16. Class level
17. Anticipated graduation date
18. Student ID number used to communicate in electronic systems that cannot be used to access education records without a PIN, password, etc.

As noted above *, currently enrolled students have the opportunity to withhold disclosure of all 18 categories of information under the Family Educational Rights and Privacy Act (FERPA). The University will not partially withhold this information, so students are advised to think carefully before requesting non-disclosure. To withhold disclosure, written notification must be received in the office of academic records and Registration, Slippery Rock University, Slippery Rock, Pa. 16057 prior to the end of the second week of each semester/summer session. Forms requesting the withholding of "directory information" are available online or in the office of Academic Records and Registration, Room 107, Old Main... (724) 738-2010 or academic.records@sru.edu.

Slippery Rock University assumes that failure on the part of any student to specifically request the withholding of "directory information" indicates individual approval for disclosures. Former students and alumni are not covered under the Family Educational Rights and Privacy Act (FERPA). As such, the University is not obligated to honor requests for non-disclosure of "directory information" from former students.

Note: Students requesting that "directory information" not be disclosed during their **final semester of enrollment** will have this information withheld indefinitely after leaving the University. Students are cautioned that making such a request may adversely impact future requests from potential employers, and other important individuals/organizations.

Prerequisites and Co-requisites

Students should not register for courses until they have completed all the appropriate prerequisites or are registered for the appropriate co-requisites as noted in the university catalog. The university's computer has been programmed to check for pre/co-requisites. Professors reserve the right to drop students who have not completed/registered for the appropriate pre/co-requisites for their classes.

Readmission

Students who have interrupted their attendance at SRU for any reason may resume studies at Slippery Rock University by applying for readmission.

Good Academic Standing: Students who interrupted registration for one or more semesters and were in academic good standing at the conclusion of the last semester of attendance may be re-activated to attend the institution. Students can be reactivated through the Department of Academic Services and referred to their academic department for course advisement.

Dismissal/Suspension/Probation: Students who have been academically suspended or dismissed or left the University while on academic probation may seek readmission to the University after waiting the term of their suspension which is one or two terms (fall term and/or spring term). In order to apply for readmission, the student should contact the Department of Academic Services. Completed students' readmission applications will be forwarded from Academic Services to the College Dean's office where the student was enrolled upon departure of the institution. The College Dean's office will render a decision for the students' readmission.

For best service, processing time, and advisement, students should contact the university at least a month in advance of the beginning of the term in which they wish to enter the institution. The readmission application packet consists of: the readmission application, official transcripts from all institutions attended after leaving SRU and a written narrative from the student describing academic goals upon return to SRU as well as a plan to ensure academic success.

Students who attended other institutions since their withdrawal, suspension, or dismissal from SRU or who have earned credit by exam will have their official transcripts/score reports forwarded by Academic Services or the appropriate Dean's office to Transfer Admission for the formal evaluation and posting of credits to the degree audit.

The readmitted student should contact Financial Aid to determine how their aid may be impacted through readmission. Readmitted students are responsible for meeting all academic requirements in effect at the time they are readmitted, not at the time they were originally admitted to the university.

Records Privacy Policy

For the purposes of complying with FERPA, an applicant to SRU becomes a "student" on the first day of the first term/semester in which the student is registered at the University.

(PL 93-380 & Right to Know Law: PA PL 390)

The Family Education Rights and Privacy Act (FERPA) affords students certain rights with respect to their education records. They are:

1. The right to inspect and review the student's education records within 45 days of the day the university receives a request for access.

Students should submit to the Director of Academic Records and Registration, Dean, Department Chairperson, or other appropriate official, written requests that identify the record(s) they wish to inspect. The University official will make arrangements for access and notify the student of the time and place where the records may be inspected. If the records are not maintained by the University official to whom the request was submitted, that official shall advise the student of the correct official to whom the request should be addressed.

2. The right to request the amendment of the student's education records that the student believes are inaccurate or misleading.

Students may ask the University to amend a record that they believe is inaccurate or misleading. They should write the University official responsible for the record, clearly identify the part of the record they want changed, and specify why it is inaccurate or misleading.

If the University decides not to amend the record as requested by the student, the University will notify the student of the decision and advise the student of his or her right to a hearing regarding to the request for amendment. Additional information regarding the hearing procedures will be provided to the student when notified of the right to a hearing.

3. The right to consent to disclosures of personally identifiable information contained in the student's education records, except to the extent that FERPA authorizes disclosure without consent.

One exception which permits disclosure without consent is disclosure to school officials with legitimate educational interests. A school official is a person employed by the University in an administrative, supervisory, academic or research, or support staff position (including law enforcement unit personnel and health staff); a person or company with whom the university has contracted (such as an attorney, auditor, or collection agent); a person serving on the Council of Trustees; or a student serving on an official committee, such as a disciplinary or grievance committee, or assisting another school official in performing his or her tasks.

A school official has a legitimate educational interest if the official needs to review an education record in order to fulfill his or her professional responsibility.

Upon request, the University may disclose education records without consent to officials of another school in which a student seeks or intends to enroll.

4. As of January 3, 2012, the U.S. Department of Education's FERPA regulations expand the circumstances under which your education records and personally identifiable information (PII) contained in such records—including your Social Security Number, grades, or other private information—may be accessed without your consent. First, the U.S. Comptroller General, the U.S. Attorney General, the U.S. Secretary of Education, or state and local education authorities ("Federal and State Authorities") may allow access to your records and PII without your consent to *any* third party designated by a Federal or State Authority to evaluate a federal- or state-supported education program. The evaluation may relate to any program that is "principally engaged in the provision of education," such as early childhood education and job training, as well as any program that is administered by an education agency or institution. Second, Federal and State Authorities may allow access to your education records and PII without your consent to researchers performing certain types of studies, in certain cases *even when we object to or do not request such research*. Federal and State Authorities must obtain certain use-restriction and data security promises from the entities that they authorize to receive your PII, but the Authorities need not maintain direct control over such entities. In addition, in connection with Statewide Longitudinal Data Systems, State Authorities may collect, compile, permanently retain, and share without your consent PII from your education records, and they may track your participation in education and other programs by linking such PII to other personal information about you that they

obtain from other Federal or State data sources, including workforce development, unemployment insurance, child welfare, juvenile justice, military service, and migrant student records systems.

5. The right to file a complaint with the U.S. Department of Education concerning alleged failures by Slippery Rock University to comply with the requirements of FERPA. The name and address of the office that administers FERPA is:

Family Policy Compliance Office
U.S. Department of Education
400 Maryland Avenue, SW
Washington, DC 20202-4605

Copies of the University's policy governing the Family Education Rights and Privacy Act are available in the Office of Academic Records and Registration, Room 107, Old Main. Questions concerning FERPA should be referred to the Director of Academic Records and Registration.

For more information see SRU's Policies and Procedures Governing FERPA & PA's Right to Know Law Document.

Repeat of Courses

Students may attempt to improve their grade point average by repeating courses. The most recent grade earned is used in calculating the GPA even if the earlier grade was higher. If a passed course is repeated and failed (or NC), the student will lose both the grade points and credits previously earned. However, all grades will appear on the transcript. Courses in which a grade was earned at Slippery Rock University may not be repeated at any institution. A grade of W (withdraw) does not count as an earned grade.

Students who repeat a course must do so using the same grading system under which they originally took the course. For example, a student who originally took a course graded A-F may not repeat the course on a P/NC, P/F, or audit basis. Students may not repeat a course by using any Credit by Examination program if they originally took the course on a graded (A-F), P/NC, P/F, or audit basis.

Undergraduate students will be limited to a maximum total of six repeats during their entire SRU academic career, excluding withdrawal grades.

In addition, repeats of a single course will be limited to a maximum of two. This means, no single course may be taken more than three times (excluding withdrawal grades).

The course repeat policy for post-baccalaureate students is the same as the undergraduate student policy.

Semester Credit Load

The number of credits an undergraduate student may carry is determined by the cumulative grade point average as follows:

- If the cumulative GPA is less than 2.000, students are limited to a maximum of 16 credits, inclusive of any repeat courses that are scheduled.
- If the cumulative GPA is 2.000 to 2.499, a maximum load of 18 credits is permitted.
- If the cumulative GPA is 2.500 or above, a maximum of 21 credits is permitted. An additional fee is charged for each credit in excess of 18.

Students wishing to register for more than the maximum number of credits noted above must complete a "Request to Register for Excess Hours" form, have it approved, and returned to the Office of Academic Records and Registration for processing.

Senior Citizens

Senior citizens (persons 62 or older, who are receiving social security or equivalent retirement benefits) may **audit** courses at no cost at Slippery Rock University on a space available basis. Senior citizens must provide proof of age, retirement benefits, name, address, and social security number to the Office of Academic Records and Registration in order to complete registration. Individuals 62 or older who are not working and are not receiving social security or retirement benefits may also qualify for this program. Senior citizens may register for classes no earlier than one week prior to the start of the semester/term. Senior citizens taking courses if specific conditions have been met **for credit** are responsible for paying all applicable fees with the exception of tuition.

Senior Undergraduate Students Earning Graduate Credit

SRU undergraduates who have earned 90 or more credits (including current courses in progress) with a minimum 2.75 GPA are eligible to apply, enroll, and earn graduate level credit. Credits earned are graduate level only, separate from the undergraduate credits earned for degree and will not be calculated in the student's undergraduate credit and grade point totals. Graduate credits taken as an undergraduate student are not eligible for financial aid. Graduate areas of study reserve the right to limit student enrollment in graduate level courses. Some graduate level courses may have prerequisites and/or course expectations which prohibit the enrollment of undergraduate students. Students may not take more than two graduate level courses per semester. A limit of 12 graduate credits may be earned prior to formal admission as a graduate level student. Students pay undergraduate level tuition and fees for graduate level courses and credit. This policy does not apply to undergraduate post-baccalaureate students and undergraduate students eligible to take 500 level courses for undergraduate credit.

Student Responsibility

Undergraduate students are expected to learn the requirements for their degree program. While academic advisers and faculty members will endeavor to aid students, the responsibility for compliance with regulations and requirements rests with the students.

Student Identity Verification in Distance Learning Policy

Slippery Rock University

Policy 2.5 Student Identity Verification in Distance Learning

POLICY STATEMENT

This policy applies to all credit-bearing distance education courses or programs offered by the Slippery Rock University, beginning with the application for admission and continuing through to a student's graduation, transfer, or withdrawal from study. The purpose of this policy is to ensure that Slippery Rock University operates in compliance with the provisions of the United States Federal Higher Education Opportunity Act (HEOA) concerning the verification of student identity in distance education.

The HEOA requires that institutions offering distance education or correspondence courses or programs have processes in place to ensure that the student registering for a course is the same student who participates in the course or receives course credit. The Act requires that institutions use one of the following three methods:

- A secure login and pass code;
- Proctored examinations; and
- New or other technologies and practices that are effective in verifying student identification.

For this purpose, Slippery Rock University requires all students to use their official University ID and password for purposes of identity verification for distance learning.

PROCEDURES

1. The SRUID system is a University authentication and security measure to ensure that accounts are managed more securely across University campuses. All students at Slippery Rock University are provided a SRUID for secure access to University systems, including for distance learning upon depositing to campus. New students set up their account and are directed to use the password management to store a four digit pin and two security questions to be used in the event that students need to change their password or reclaim their SRUID. In the event this has not been done, students can contact the Help Desk and verify their identification through a variety of questions with full-time staff.
1. Students are responsible for providing their complete and true identity information in any identification verification process. It is against University policy for a user to give someone his or her password or to allow others to use his or her account.
1. Slippery Rock University's learning management system integrates with University authentication services to ensure appropriate and secure student access to courses and other Student Information Systems. All users of the University's learning management system are responsible for maintaining the security of IDs and passwords, or any other access credentials as required. Attempting to discover another user's password or attempts to gain unauthorized access to another person's files or email is prohibited.
1. In addition, the University's Student Information System provides instructors access to class rosters that includes student photos associated with their name and account. The learning management system also provides student photos associated with their account, and if set up by the student, is visible in areas of the course including the discussion. Live audio and video of students interacting in the course is also a feature of the learning management system. As technology and personal accountability are not absolute in determining a student's identity, faculty members are encouraged to use these technologies and to design courses that use assignments and evaluations that support academic integrity.
1. At this time there are no additional student fees associated with student verification. Slippery Rock University is currently experimenting with a video tool used for identification/integrity purposes. In the event any verification fee is needed, it will be posted on the course registration site to provide an advance alert to students.

1. Slippery Rock University complies fully with the provisions of the Family Educational Rights and Privacy Act (FERPA), 20 U.S.C. 1232g. This act protects the privacy of student information in distance education by requiring, with certain limited exceptions, that the student's consent must be obtained before disclosing any personally identifiable information in the student's education records. Additional information on FERPA and student record access can be found at:

<http://www.sru.edu/academics/academic-services/academic-records/policies-regulations-and-catalogs>

SANCTIONS

Students who violate this policy are subject to disciplinary action through the Student Code of Conduct Policy

RESPONSIBILITY FOR IMPLEMENTATION

The Office of Academic Affairs is responsible for ensuring compliance with this policy and that deans, department chairs, and program coordinators are informed of any changes in the policy in a timely fashion. The Office of Academic Affairs is also responsible for ensuring that university-level processes remain in compliance with this policy.

SCOPE OF POLICY COVERAGE

This policy applies to all students taking distance education courses.

Authority for creation and revision

Reviewed by: ASA Academic Policy Committee, 1.30.16

Approved by: Provost Philip Way, 2.25.16

Summer and Winter Sessions

Summer sessions at Slippery Rock University are scheduled over a twelve week period (Full Summer) or as follows: Pre-session (two and one-half weeks), Session I (four weeks), Session II (four weeks), Summer Term (eight weeks), and Post- Session for Internships and Student Teaching. Information on the summer sessions is made available through an online summer schedule/bulletin, which may be accessed from the Academic Records and Registration website in mid-March.

Students may enroll for up to 6 credits in Pre-session, 7 credits in Sessions I and II and 12 credits in Full Summer, Summer Term and Post-Session. Undergraduates may take more than 18 credits for all summer sessions combined.

Winter session runs between fall and spring semesters. All courses are offered online, at the Regional Learning Alliance or off-campus (internships). Students are permitted to take up to 7 credits in Winter session. Information on Winter session is made available through a Winter session website in early November.

Transcripts

Students may obtain official transcripts of their academic records from the Office of Academic Records and Registration by written request. Transcripts may be mailed, faxed or sent electronically. There is no cost for regularly processed transcripts (48-72 hour turnaround). Same day service costs \$10 per transcript requested. A complimentary copy of the transcript is sent to all students upon graduation. Transcripts are not released to students who have outstanding financial obligations, or other holds at the university. The University only issues OFFICIAL transcripts. Unofficial transcripts for currently enrolled students exist on MySRU.

A student's academic transcript will indicate any disciplinary action taken that leads to separation from the institution. That is, should a student be suspended or dismissed from the university under the provisions of the Code of Conduct, a notation will be placed on the student's transcript for the duration of the sanction. The notation will be removed upon expiration or by action of the Provost and Vice President for Academic and Student Affairs or Associate Provost for Student Success.

Transient Student Status

Slippery Rock University students who are in good academic standing, or who are under academic probation/suspension and plan to take courses at another institution for transfer back to Slippery Rock University must complete and have approved by their adviser, chairperson and dean (if suspended) a transient student clearance form and comply with all regulations cited on that form. Credit will not be awarded for transient courses determined by the Director of Academic Records and Registration or his/her staff to duplicate coursework already posted on students' SRU records. Transient credit will be awarded for courses in which grades of "C-" or better have been earned. Grades earned as a transient student will not be computed in students' SRU cumulative GPAs. Copies of the Transient Student form are available in department chairpersons' offices, the Office of Academic Records and Registration and online. Transient students may not take credit earned by examination. Other policies governing transient status are available from the Office of Academic Records and Registration. Students must complete 30 of their last 60 credits in residence at SRU. In addition, individual departments may establish residency requirements for their majors and minors. Students should check with their academic adviser to determine the requirements for their academic program.

Veteran Students - Higher Education Course Scheduling Preference

Act 46 of 2014 requires public institutions of higher education in Pennsylvania to provide veteran students, as defined in the Act, with preference course scheduling. Non-compliance may be reported to the Pennsylvania Department of Education by submitting the Higher Education Complaint form found at: [www.education/state.pa.us](http://www.education.state.pa.us)

In accordance with the Pennsylvania "Higher Education Course Scheduling Preference for Veteran Student Act", Slippery Rock University has broadened the definition of "veteran student" to include the following groups of students:

1. Any student who "has served in the U.S. Armed Forces, including a reserve component and National Guard, and was discharged or released from such service under conditions other than dishonorable".
2. Any student currently serving in any branch of the U.S. Armed Forces, including a reserve component and National Guard.
3. Any contracted SRU ROTC student.

Veterans receiving "course scheduling preference" will be assigned the first registration date and time within their respective class level... graduate, post-baccalaureate and undergraduate.

Students, who have identified themselves as being "veterans", as defined above, will automatically receive their priority registration date and time on MySRU. Students who believe they are "veterans" as defined above and who have not yet identified themselves as such should submit a DD214, Joint Services Transcript (JST) or Community College of the Air Force (CCAF) transcript to the Director of Academic Records & Registration, room 107, Old Main.

Students with questions concerning course scheduling preference for veterans may contact any of the following individuals:

Ms. Corinne Gibson - Director of Inclusive Excellence, Corinne.Gibson@sru.edu, 724-738-2700

Mr. Constance Edwards – Director of Academic Records and Registration, Constance.Edwards@sru.edu, 724-738-2010

Mr. George McDowell - Veterans Services Coordinator, George.McDowell@sru.edu , 724-738-2184

Visiting Students (PASSHE)

Students desiring to transfer credit and grades earned at other universities in the Pennsylvania State System of Higher Education back to Slippery Rock University may do so as "Visiting Students." Courses taken under this program are treated the same as courses taken at Slippery Rock University in computing the students' GPA. A special form, with a list of program requirements, is available in the Office of Academic Records and Registration and online and must be approved by the students' adviser or chairperson, academic dean, and the Director of Academic Records and Registration.

Withdrawal from the University

Once the decision has been made to withdraw from the University, the student must complete an exit interview with a Student Success Coach. During the exit interview, a Success Coach will complete an electronic withdrawal form to begin the withdrawal process.

To withdraw from the university, students must schedule an exit interview by calling the Office for Inclusive Excellence at 724-738-2700 or by using Success Coaches booking links on the website: <https://www.sru.edu/life-at-sru/diversity/inclusive-excellence/student-success-coaches>.

During the exit interview, the students' effective withdrawal date will be determined. The withdrawal date is considered the date of the exit interview, not necessarily the last date of class attendance. Contact the Academic Records and Registration Office at 724.738.2010 for additional information. Unless suitable proof is submitted, students will be withdrawn on the day of their exit interview, not the day they state they last attended classes.

Students who have left the university for whatever reason and for whatever length of time and are readmitted are responsible for meeting all graduation (Liberal/Rock Studies and major) requirements that are in effect the term they are readmitted, not the term they originally entered the university.

Course Descriptions

Select [Add to Portfolio](#) to print descriptions.

ACCT 101 - Taxes in America

In America, our income is taxed when we earn it and when we spend it. Our property is taxed when we own it and sometimes even when we give it away! We pay taxes to our local, state, and federal governments. Learn where you tax dollars go, how they are used, and how you influence tax legislation. Evaluate how our taxes affect diverse populations

in American society.

Credits: 3

ACCT 139 - University Seminar

University Seminar serves as the entry point to the Slippery Rock University general education program. With its small seminar setting and strong faculty-student interaction, the course promotes intellectual inquiry, critical and creative thinking, and academic excellence. Through varied content, the course introduces students to academic discourse and information literacy while exploring topics such as diversity and inclusion and global awareness. This course will set students along the path to becoming engaged with issues and scholarship important to a 21st century education while they learn about themselves and their place in the world.

Credits: 3

ACCT 190 - Experimental

A unique and specifically focused course within the general purview of a department which intends to offer it on a "one time only "basis and not as a permanent part of the department's curriculum.

Credits: 3

ACCT 195 - Workshop

A workshop is a program which is usually of short duration, narrow in scope, often non-traditional in content and format, and on a timely topic.

Credits: 3

ACCT 198 - Selected Topic

A **Selected Topics** course is a normal, departmental offering which is directly related to the discipline, but because of its specialized nature, may not be able to be offered on a yearly basis by the department.

Credits: 3

ACCT 209 - Financial Accounting

A study of accounting concepts and principles that govern the recording, processing, and reporting of accounting information. The significance of the financial statements and the analysis of accounting information for investors, creditors, and other external users in the decision making process is emphasized.

Credits: 3

ACCT 210 - Managerial Accounting

A study of accounting concepts and procedures used for cost analysis, cost allocation , planning, and reporting accounting information with an internal perspective. The significance of accounting information and the financial statements for management's decision-making process is emphasized.

Prerequisites & Notes

ACCT 209

Credits: 3

ACCT 230 - Accounting Information Systems

Designing effective accounting information systems to generate reliable accounting information is the focus of the course. The significance of accounting information, transaction cycles, systems controls, document flowcharts, and accounting software are emphasized.

Prerequisites & Notes

Prerequisites: ACCT 209 minimum grade of C; and CPSC/MIS 210 minimum grade of D; or permission of instructor.

Credits: 3

ACCT 290 - Experimental

A unique and specifically focused course within the general purview of a department which intends to offer it on a "one time only" basis and not as a permanent part of the department's curriculum.

Credits: 3

ACCT 295 - Workshop

A workshop is a program which is usually of short duration, narrow in scope, often non-traditional in content and format, and on a timely topic.

Credits: 3

ACCT 298 - Selected Topic

A **Selected Topics** course is a normal, departmental offering which is directly related to the discipline, but because of its specialized nature, may not be able to be offered on a yearly basis by the department.

Credits: 3

ACCT 308 - Federal Individual Income Tax

Study of the federal income tax system, individual returns, rates, income exclusions and inclusions, gains and losses, deductions, alternate tax methods, and withholding of taxes. Prerequisite: Advanced business standing.

Prerequisites & Notes

ACCT 209

Credits: 3

ACCT 310 - Cost Accounting

A study of control concepts and costing methods including systems for management control, inventory valuation, cost-volume-profit analysis, standard variance analysis, budgeting, decision models, product cost accumulation, and quantitative methods in cost analysis.

Prerequisites & Notes

Prerequisites: ACCT 209 minimum grade of C and ECON/MGMT 219 minimum grade of D; or permission of instructor.

Credits: 3

ACCT 311 - Federal Corporate and Transfer Taxes

Corporate, partnership, estate and trust taxation are covered along with topics such as depletion, net operating losses, and installment and deferred payment sale.

Prerequisites & Notes

ACCT 308 or permission of the instructor

Credits: 3

ACCT 313 - Intermediate Accounting I

An examination of accounting principles and the study of the foundations of accounting theory and practice. Emphasis is placed on the conceptual framework of accounting and the development of generally accepted accounting principles including the FASB Codification, SEC, IASB, and other standards setting bodies; time value of money concepts, accounting for stockholders' equity and the presentation of the balance sheet and income statement. Ethical issues and concerns are stressed throughout the course.

Prerequisites & Notes

Prerequisites: ACCT 209 and ACCT 230 minimum grade of C; and ECON 202 and ECON/MGMT 219 minimum grade of D; or permission of instructor.

Credits: 3

ACCT 314 - Intermediate Accounting II

A continuation of ACCT 313 covering the detailed examination and application of generally accepted accounting procedures in accounting for stockholders' equity: contributed capital and retained earnings; revenue and expense determination, recognition, and measurement with particular emphasis on pensions, leases, and deferred taxes. Ethical issues and concerns are stressed throughout the course.

Prerequisites & Notes

ACCT313

Credits: 3

ACCT 315 - Intermediate Accounting III

A continuation of ACCT 313 covering the detailed examination and application of generally accepted accounting principles in accounting for stockholders' equity issues: revenue recognition, pensions, leases, deferred taxes, share based compensation, EPS, accounting changes and error corrections; and the cash flow statement. Ethical issues and concerns are stressed throughout the course.

Prerequisites & Notes

Prerequisite: ACCT 314 minimum grade of C or permission of instructor.

Credits: 3

ACCT 320 - Forensic Accounting

Forensic Accounting as an accounting field of study has surged with the high profile corporate misappropriation of assets/financial statement manipulation and fraud situations over the last 20 years. White collar fraud and the resulting increased legislation has heightened awareness of fraud and increased the need for accountants with forensic accounting skills. Certifications such as the Certified Fraud Examiner (CFE) now increasingly sought after by practitioners and students.

Prerequisites & Notes

Prerequisites: ACCT 209 minimum grade of C and ACCT 313 minimum grade of C or permission of instructor.

Credits: 3

ACCT 322 - Business Analysis and Decision Making

This course acquaints students with the process used to construct and understand the financial reports of organizations. An important objective is to understand the decisions that must be made in the financial reporting process and to develop the ability to evaluate and use accounting data. Included in the content are a study of accounting concepts and procedures used for financial statement analysis, cost analysis, cost allocation, planning and reporting accounting information. The significance of accounting information and the financial statements for management's decision-making process is emphasized.

Prerequisites & Notes

Prerequisites: ACCT 209

Credits: 3

ACCT 324 - Cost Accounting II

This course is a continuation of Cost Accounting, ACCT 310. This course covers breakeven analysis, activity based costing, inventory management, differential analysis, transfer pricing, product pricing, capital planning, cost centers, the balanced scorecard, and decision making under uncertainty.

Prerequisites & Notes

ACCT 310

Credits: 3

ACCT 341 - Legal Environment of Business II

An analysis of complex transactions including mergers and acquisitions, antitrust law, financial instruments, intellectual property, bankruptcy, environmental, estate and international law.

Prerequisites & Notes

ACCT 340

Credits: 3

ACCT 390 - Experimental

A unique and specifically focused course within the general purview of a department which intends to offer it on a "one time only "basis and not as a permanent part of the department's curriculum.

Credits: 3

ACCT 395 - Workshop

A workshop is a program which is usually of short duration, narrow in scope, often non-traditional in content and format, and on a timely topic.

Credits: 3

ACCT 398 - Selected Topic

A **Selected Topics** course is a normal, departmental offering which is directly related to the discipline, but because of its specialized nature, may not be able to be offered on a yearly basis by the department.

Credits: 3

ACCT 411 - Auditing Theory and Practice

Objective examination of financial statements with emphasis on internal control, review and evaluation, sampling theory and application, and procedural testing.

Prerequisites & Notes

Prerequisites: ACCT 315 minimum grade of C or permission of instructor.

Credits: 3

ACCT 412 - Accounting Seminar

Analysis of current accounting theory and application in practice. Additional focus on ethics, written and oral communication, organization skills, professionalism, and current topics.

Prerequisites & Notes

ACCT 314 or permission of the instructor

Credits: 3

ACCT 413 - Advanced Accounting

In this course, advanced accounting concepts and procedures affecting partnerships, governmental entities, not-for-profit organizations, estates, and trusts are presented. Diverse global accounting issues, diversity in application of generally accepted accounting standards (GAAP), and the harmonization of GAAP in the development of international financial reporting standards (IRFS) as it applies to business combinations, consolidations, and transactions between international entities are highlighted.

Prerequisites & Notes

Prerequisites: ACCT 315 minimum grade of C or permission of instructor.

Credits: 3

ACCT 419 - Auditing Systems

Continuation of ACCT 411 with emphasis on computerized accounting systems and auditing procedures.

Prerequisites & Notes

ACCT 411 or permission of the instructor

Credits: 3

ACCT 423 - Advanced Accounting II

This course is a continuation of Advanced Accounting, ACCT 413. Covers various topics, with emphasis on not-for-profit accounting (government, education, hospitals, and volunteer organizations), fiduciary accounting (estates, trusts, and insolvent companies), and advanced financial statement presentations (interim reporting, foreign currency, and segment reporting). Related pronouncements from the Financial Accounting Standards Board and the Governmental Accounting Standards Board will also be introduced.

Prerequisites & Notes

ACCT 413

Credits: 3

ACCT 429 - Accounting Data Analytics

Analysis of data for accounting and finance applications. Focus on accounting data analysis concepts and techniques for decisions making and the use of large data sets involving accounting information. Development of analysis and problem solving skills using current software tools available to accounting professionals.

Prerequisites & Notes

Prerequisites: ACCT 230 and ACCT 313 minimum grade of C; or permission of instructor.

Credits: 3

ACCT 450 - Internship

Supervised placement in selected public and private agencies at appropriate institutions. Prerequisites: Application and permission of the instructor.

Prerequisites & Notes

Application and permission of the instructor

Credits: 1 to 12

ACCT 490 - Independent Study

In-depth reading and/or research in an area of particular interest to the student, done with the guidance of a faculty member. Prerequisites: 12 credits of accounting courses, application, and permission of the instructor, departmental chairperson, and dean of the college where the study will be conducted.

Independent Study courses give students the opportunity to pursue research and/or studies that are not part of the university's traditional course offerings. Students work one on one or in small groups with faculty guidance and are typically required to submit a final paper or project as determined by the supervising professor.

Prerequisites & Notes

12 credits of accounting courses, application and permission of the instructor, departmental chairperson, and dean of the college where the study will be conducted

Credits: 1 to 3

ACCT 495 - Workshop

A workshop is a program which is usually of short duration, narrow in scope, often non-traditional in content and format, and on a timely topic.

Credits: 3

ACCT 498 - Selected Topic

A **Selected Topics** course is a normal, departmental offering which is directly related to the discipline, but because of its specialized nature, may not be able to be offered on a yearly basis by the department.

Credits: 3

ACSD 109 - Developmental Mathematics

This course covers basic arithmetic skills necessary for successful completion of basic algebra. Topics include basic operations using whole numbers, fractions and decimals, ratios and proportions, percents, and solving equations.

Students not exempted from ACSD 109 must successfully complete this course before enrolling in ACSD 110.

Students must pass a standard proficiency exam to pass this course. Course grading: A, B, C, or NC. Credit earned in this course will not count toward the university's 120 credit hour minimum required for graduation.)

Credits: 3

ACSD 110 - Beginning Algebra

An overview of introductory algebra concepts, this course covers topics such as: simplifying variable expressions, solving equations and applications problems, simplifying polynomials, factoring, algebraic fractions, graphing linear equations, solving systems of linear equations, and simplifying radical expressions. Students who are placed into this course are expected to possess certain minimum competencies in arithmetic skills, and they must pass a standard proficiency exam to pass this course. Course grading: A, B, C, or NC. Prerequisite: ACSD 109 or exemption from ACSD 109. Credit earned in this course will not count toward the university's 120 credit hour minimum required for graduation.

Credits: 3

ACSD 139 - University Seminar

University Seminar serves as the entry point to the Slippery Rock University general education program. With its small seminar setting and strong faculty-student interaction, the course promotes intellectual inquiry, critical and creative thinking, and academic excellence. Through varied content, the course introduces students to academic discourse and information literacy while exploring topics such as diversity and inclusion and global awareness. This course will set students along the path to becoming engaged with issues and scholarship important to a 21st century education while they learn about themselves and their place in the world.

Credits: 3

ACSD 190 - Experimental

A unique and specifically focused course within the general purview of a department which intends to offer it on a "one time only" basis and not as a permanent part of the department's curriculum.

Prerequisites & Notes

N/A

Credits: 1 to 3

ACSD 195 - Workshop

A workshop is a program which is usually of short duration, narrow in scope, often non-traditional in content and format, and on a timely topic.

Credits: 1 to 3

ACSD 198 - Selected Topic

A **Selected Topics** course is a normal, departmental offering which is directly related to the discipline, but because of its specialized nature, may not be able to be offered on a yearly basis by the department.

Credits: 1 to 3

ACSD 290 - Experimental

A unique and specifically focused course within the general purview of a department which intends to offer it on a "one time only "basis and not as a permanent part of the department's curriculum.

Credits: 1 to 3

ACSD 295 - Workshop

A workshop is a program which is usually of short duration, narrow in scope, often non-traditional in content and format, and on a timely topic.

Credits: 1 to 3

ACSD 298 - Selected Topic

A **Selected Topics** course is a normal, departmental offering which is directly related to the discipline, but because of its specialized nature, may not be able to be offered on a yearly basis by the department.

Credits: 1 to 3

ACSD 390 - Experimental

A unique and specifically focused course within the general purview of a department which intends to offer it on a "one time only "basis and not as a permanent part of the department's curriculum.

Credits: 1 to 3

ACSD 395 - Workshop

A workshop is a program which is usually of short duration, narrow in scope, often non-traditional in content and format, and on a timely topic.

Credits: 1 to 3

ACSD 398 - Selected Topic

A **Selected Topics** course is a normal, departmental offering which is directly related to the discipline, but because of its specialized nature, may not be able to be offered on a yearly basis by the department.

Credits: 1 to 3

ACSD 490 - Independent Study

Independent Study courses give students the opportunity to pursue research and/or studies that are not part of the university's traditional course offerings. Students work one on one or in small groups with faculty guidance and are typically required to submit a final paper or project as determined by the supervising professor.

Credits: 1 to 3

ACSD 495 - Workshop

A workshop is a program which is usually of short duration, narrow in scope, often non-traditional in content and format, and on a timely topic.

Credits: 1 to 3

ACSD 498 - Selected Topic

A **Selected Topics** course is a normal, departmental offering which is directly related to the discipline, but because of its specialized nature, may not be able to be offered on a yearly basis by the department.

Credits: 1 to 3

ARAB 101 - Arabic Language and Culture I

This course is the first in a three course series which will provide an introduction to the Arabic language.

Credits: 3

ARAB 102 - Arabic Language and Culture II

This course is the second in a three course series which will provide an introduction to the Arabic language.

Prerequisites & Notes

ARAB 101

Credits: 3

ARAB 103 - Arabic Language and Culture III

This course is the third in a three course series which will provide an introduction to the Arabic language.

Prerequisites & Notes

ARAB 102

Credits: 3

ARAB 139 - University Seminar

University Seminar serves as the entry point to the Slippery Rock University general education program. With its small seminar setting and strong faculty-student interaction, the course promotes intellectual inquiry, critical and creative

thinking, and academic excellence. Through varied content, the course introduces students to academic discourse and information literacy while exploring topics such as diversity and inclusion and global awareness. This course will set students along the path to becoming engaged with issues and scholarship important to a 21st century education while they learn about themselves and their place in the world.

Credits: 3

ARAB 202 - Intermediate Arabic 1

Comprehensive review of Arabic language and culture with emphasis on developing the students' abilities for proficient oral and written accomplishments.

Prerequisites & Notes

ARAB 103 or equivalent

Credits: 3

ARAB 215 - Topics in Arabic Culture

This course provides deeper knowledge of Arabic culture by examining selected topics in Arabic culture. This course is taught in English.

Credits: 3

ARAB 300 - Reading & Writing in Arabic

This course is designed to develop and enhance reading and writing skills in Modern Standard Arabic (MSA).

Prerequisites & Notes

Prerequisites: Arabic Language and Culture I -ARAB 101 (grade C or above), Arabic Language and Culture II -ARAB 102 (grade C or above), Arabic Language and Culture III-ARAB 103 (grade C or above), Intermediate Arabic I -ARAB 202 (grade C or above), or concurrent enrollment in ARAB 202

Credits: 3

ARAB 301 - Arabic Conversation I

This course is focused on conversation using Modern Standard Arabic (MSA) and will acquaint the student with formal registers and forms of oral communication.

Prerequisites & Notes

Prerequisite: ARAB 202 or equivalent. or concurrent enrollment in ARAB 202

Credits: 3

ARAB 315 - Arabic Study Abroad

This course is designed for students who wish to study Arabic society firsthand. Students will study the culture, literature, history, art, and other socio-political issues concerning the country where the program is offered.

Credits: 3

ARAB 490 - Independent Study

Independent Study courses give students the opportunity to pursue research and/or studies that are not part of the university's traditional course offerings. Students work one on one or in small groups with faculty guidance and are typically required to submit a final paper or project as determined by the supervising professor.

Credits: 1 to 3

ART 100 - 2-D Design

An introductory studio course examining the underlying structure of basic design in two-dimensional art. Students will be involved in the actual production of two-dimensional design solutions. The history of design is explored, as well as the various techniques employed by artists to express personal visions, communicate ideas or examine and interpret the human experience.

Credits: 3

ART 101 - 3-D Design

An introductory studio course examining the underlying structure of basic design in three-dimensional art. Students will be involved in the actual production of three-dimensional design solutions. The history of design is explored, as well as the various techniques employed by artists to express personal visions, communicate ideas or examine and interpret the human experience.

Credits: 3

ART 105 - Basic Studio Drawing

This course will provide students with introductory level drawing knowledge and skills, emphasizing fine art approaches. Drawing will be explored through production, critique, history and aesthetics. Students will be provided with the fundamental technical, historical and conceptual information necessary to produce fine art drawings and maintain a portfolio. The elements and principles of design will be incorporated through the use of various drawing materials and techniques. Emphasis will be placed on the hands-on exploration of formal, technical and conceptual relationships. Students will develop a sensitive response to subtleties in drawing as well as to the whole. Critical thinking will be addressed with each project, allowing students to improve their ability to analyze visual works of art. Through creative studio practice, students discover relationships relevant to their role as an artist and work to develop the following emphasized artistic traits: perceptual openness, flexibility/adaptability, the courage to take a risk, the ability to analyze, and self-confidence.

Prerequisites & Notes

None

Credits: 3

ART 106 - Basic Studio Painting

This course will provide students with introductory level painting knowledge and skills, emphasizing fine art approaches. Painting will be explored through production, critique, history and aesthetics in order to achieve individual artistic goals. Students will be provided with the fundamental technical, historical and conceptual information necessary to produce fine art paintings and develop a portfolio. The elements and principles of design will be incorporated through the use of various painting materials and techniques. Emphasis will be placed on the hands-on

exploration of formal, technical and conceptual relationships. Students will develop a sensitive response to subtleties in paintings as well as to the whole. Critical thinking will be addressed with each project, allowing students to improve their ability to analyze visual works of art.

Through creative studio practice, students discover relationships relevant to their role as an artist and work to develop the following emphasized artistic traits: perceptual openness, flexibility/adaptability, the courage to take a risk, the ability to analyze, and self-confidence.

Prerequisites & Notes

None

Credits: 3

ART 107 - Basic Studio Photography

This course will provide students with introductory level photographic knowledge and skills, emphasizing fine art approaches. Photography will be explored through production, critique, history and aesthetics in order to achieve individual artistic goals. Students will be provided with the fundamental technical, historical and conceptual information necessary to produce fine art prints and maintain a portfolio. The elements and principles of design will be incorporated into the study of photography, with focus on formal, technical and conceptual relationships. Students will gain knowledge of various genres of photography, styles, tips and techniques. Critical thinking will be addressed with each project, allowing students to improve their ability to visually analyze artwork.

Through creative studio practice, students discover relationships relevant to their role as an artist and work to develop the following emphasized artistic traits: perceptual openness, flexibility/adaptability, the courage to take a risk, the ability to analyze, and self-confidence.

Prerequisites & Notes

None

Credits: 3

ART 108 - Basic Studio Printmaking

This course will provide students with introductory level printmaking knowledge and skills. Printmaking will be explored through production, critique, history and aesthetics. Students will be provided with the fundamental, technical, historical and conceptual information necessary to produce fine art prints and editions of prints. The elements and principles of design will be incorporated through the use of various printmaking material and techniques. Emphasis will be placed on the hands-on exploration of formal, technical and conceptual relationships. Critical thinking will be addressed with each project, allowing students to improve their ability to analyze visual works of art.

Through creative studio practice, students discover relationships relevant to their role as an artist and work to develop the following emphasized artistic traits: perceptual openness, flexibility/adaptability, the courage to take a risk, the ability to analyze, and self-confidence.

Prerequisites & Notes

None

Credits: 3

ART 109 - Basic Studio Metalsmithing

This course will provide students with introductory Metalsmithing knowledge and skills, emphasizing fine art approaches while utilizing a variety of materials, predominantly metal. Metalsmithing will be explored through

production, critique, history and aesthetics in order to achieve individual artistic goals and expression. Students will be provided with the fundamental technical, historical and conceptual information necessary to produce fine art forms and develop a portfolio. Students gain an understanding of various techniques, styles and approaches to metalsmithing. Critical thinking will be addressed with each project, allowing students to improve their ability to analyze visual works of art.

Through creative studio practice, students discover relationships relevant to their role as an artist and work to develop the following emphasized artistic traits: perceptual openness, flexibility/adaptability, the courage to take a risk, the ability to analyze, and self-confidence.

Credits: 3

ART 110 - Basic Studio Sculpture

This course will provide students with introductory Sculpture knowledge and skills, emphasizing fine art approaches while utilizing a variety of materials. Sculpture will be explored through production, critique, history and aesthetics in order to achieve individual artistic goals and expression. Students will be provided with the fundamental technical, historical and conceptual information necessary to produce fine art forms and develop a portfolio. Students gain an understanding of various techniques, styles and approaches to contemporary sculpture. Critical thinking will be addressed with each project, allowing students to improve their ability to analyze visual works of art.

Through creative studio practice, students discover relationship relevant to their role as an artist and work to develop the following emphasized artistic traits: perceptual openness, flexibility/adaptability, the courage to take a risk, the ability to analyze, and self-confidence.

Credits: 3

ART 111 - Basic Studio Fiber Art

This course will provide students with introductory level Fiber Art knowledge and skills. Fiber Art will be explored through production, critique, history and aesthetics. Students will be provided with the fundamental technical, historical and conceptual information necessary to produce fine art forms and develop a portfolio. Through two-and three-dimensional projects, students will have an opportunity to creatively explore a variety of traditional and non-traditional flexible materials, techniques and concepts while developing a portfolio. Emphasis will be place upon the ability to investigate the unique qualities and characteristics of materials and the development of an original response to an assignment. Critical thinking will be addressed with each project, allowing students to improve their ability to analyze visual works of art. Through creative studio practice, students discover relationships relevant to their role as an artist and work to develop the following emphasized artistic traits: perceptual openness, flexibility/adaptability, the courage to take a risk, the ability to analyze, and self-confidence.

Prerequisites & Notes

None

Credits: 3

ART 112 - Basic Studio Ceramics

This course will provide students with introductory ceramics knowledge and skills, emphasizing fine art approaches while utilizing a variety of materials. Ceramics will be explored through production, critique, history and aesthetics in order to achieve individual artistic goals, and expression. Students will be provided with the fundamental technical, historical and conceptual information necessary to produce fine art forms and develop a portfolio. Students gain an understanding of various techniques, styles and approaches to contemporary ceramics. Emphasis will be placed upon the ability to investigate the unique qualities and characteristics of materials and the development of an original

response to an assignment. Critical thinking will be addressed with each project, allowing students to improve their ability to analyze visual works of art.

Through creative studio practice, students discover relationships relevant to their role as an artist and work to develop the following emphasized artistic traits: perceptual openness, flexibility/adaptability, the courage to take a risk, the ability to analyze, and self-confidence.

Credits: 3

ART 114 - Basic Studio Digital Media

This course will provide students with introductory level Digital Media knowledge and skills, emphasizing fine art approaches that utilize the computer in addition to other various technologies to produce works of art. Digital Media will be explored through production, critique, history and aesthetics in order to achieve individual artistic goals. Students will be provided with the fundamental technical, historical and conceptual information necessary to produce digitally-based art. Technical ability and development, conceptual development, and media experimentation will be stressed. Critical thinking will be addressed with each project, allowing students to improve their ability to analyze visual works of art. Through creative studio practice, students discover relationships relevant to their role as an artist and work to develop the following emphasized artistic traits: perceptual openness, flexibility/adaptability, the courage to take a risk, the ability to analyze, and self-confidence.

Credits: 3

ART 115 - Visual Literacy

A cornerstone course involving the study of visual forms of communication with an emphasis on image-based media (newspaper, magazine, film, television, photography, informational graphics, interactive multimedia, digital games and web-based technologies). Topics include visual interpretation, visual manipulation, visual conventions, the role of visual media in cultural processes and aesthetic appreciation.

Credits: 3

ART 121 - Introduction to Visual Arts

This course provides an introduction to visual arts for high school students enrolled in SRU's Summer Arts Academy.

Credits: 1

ART 139 - University Seminar

University Seminar serves as the entry point to the Slippery Rock University general education program. With its small seminar setting and strong faculty-student interaction, the course promotes intellectual inquiry, critical and creative thinking, and academic excellence. Through varied content, the course introduces students to academic discourse and information literacy while exploring topics such as diversity and inclusion and global awareness. This course will set students along the path to becoming engaged with issues and scholarship important to a 21st century education while they learn about themselves and their place in the world.

Credits: 3

ART 190 - Experimental

A unique and specifically focused course within the general purview of a department which intends to offer it on a "one time only "basis and not as a permanent part of the department's curriculum.

Credits: 3

ART 195 - Workshop

A workshop is a program which is usually of short duration, narrow in scope, often non-traditional in content and format, and on a timely topic.

Credits: 3

ART 198 - Selected Topic

A **Selected Topics** course is a normal, departmental offering which is directly related to the discipline, but because of its specialized nature, may not be able to be offered on a yearly basis by the department.

Credits: 3

ART 200 - Activities and Fundamentals

A course providing for the study of child development through creative activities. It includes theory, experimentation with two and three-dimensional processes appropriate to the elementary classroom, methods of motivation, evaluation and classroom management.

Credits: 3

ART 205 - Intermediate Studio Drawing

The student will explore Drawing with an increased level of production, critique, history and aesthetics. This course will provide the student with a moderate level of fine art studio drawing. Students will explore how to work with the fine art medium of mark-making through process and production, including art history and discussion. Students will review fundamental technical and conceptual information necessary to further the creation of fine art pieces. Students will develop individual applications of drawing with an increased level to critically analyze both individual and peer artwork. Through creative studio practice, students should develop the following emphasized artistic traits: ability to resist premature closure; sensitivity to problem; ability to synthesize. Repeatable: consult individual curriculum guide.

Prerequisites & Notes

One course at the basic studio level chosen from ART 100, 101, 105, 106, 107, 108, 109, 110, 111, 112 and 114.
Course may be repeated once for additional credit.

Credits: 3

ART 206 - Intermediate Studio Painting

The student will explore Painting with an increased level of production, critique, history and aesthetics. This course will provide the student with a moderate level of fine art studio painting. Students will explore how to work with the

fine art medium of paint through process and production, including art history and discussion. Students will review fundamental technical and conceptual information necessary to further the creation of fine art pieces. Students will develop individual applications of painting with an increased level to critically analyze both individual and peer artwork. Through creative studio practice, students should develop the following emphasized artistic traits: ability to resist premature closure; sensitivity to problems; ability to synthesize. Repeatable: consult individual curriculum guide.

Prerequisites & Notes

One course at the basic studio level chosen from ART 100, 101, 105, 106, 107, 108, 109, 110, 111, 112 and 114. Course may be repeated once for additional credit.

Credits: 3

ART 207 - Intermediate Studio Photography

The student will explore Photography with an increased level of production, critique, history and aesthetics. Student will continue to develop photographic knowledge and skills, emphasizing fine art approaches. Students will review fundamental technical and conceptual information necessary to further the creation of fine art photographs. Students will continue to receive technical, historical and conceptual information to help advance their portfolios. Primary emphasis will be placed on technical refinement alongside development of creative problem-solving skills. Through creative studio practice, students should develop the following emphasized artistic traits: ability to resist premature closure; sensitivity to problems; ability to synthesize. Repeatable: consult individual curriculum guide.

Prerequisites & Notes

One course at the basic studio level chosen from ART 100, 101, 105, 106, 107, 108, 109, 110, 111, 112 and 114. Course may be repeated once for additional credit.

Credits: 3

ART 208 - Intermediate Studio Printmaking

The student will explore Printmaking with an increased level of production, critique, history and aesthetics. This course will provide students with opportunities to explore and develop techniques and concepts of Printmaking. Emphasis will be on the manual procedures of printing black and white as well as color prints. Continued development of technical ability, conceptual development and media experimentation will be stressed. Primary emphasis will be placed on the development of creative problem-solving skills. Through creative studio practice, students should develop the following emphasized artistic traits: ability to resist premature closure; sensitivity to problems; ability to synthesize. Repeatable: consult individual curriculum guide.

Prerequisites & Notes

One course at the basic studio level chosen from ART 100, 101, 105, 106, 107, 108, 109, 110, 111, 112 and 114. Course may be repeated once for additional credit.

Credits: 3

ART 209 - Intermediate Studio Metalsmithing

The student will explore Metalsmithing with an increased level of production, critique, history and aesthetics. This course is intended to increase skill level while continuing to develop the student's personal aesthetic. Students will demonstrate a variety of metalsmithing techniques while understanding Metalsmithing's technical and historical contexts. Students are expected to be self-motivated in terms of idea generation and execution. Students will explore avenues to make their work more personal by combining metalsmithing technical skills with form and

concept. Primary emphasis will be placed on technical refinement alongside development of creative problem-solving skills. Through creative studio practice, students should develop the following emphasized artistic traits: ability to resist premature closure; sensitivity to problems; ability to synthesize. Repeatable: consult individual curriculum guide.

Prerequisites & Notes

One course at the basic studio level chosen from ART 100, 101, 105, 106, 107, 108, 109, 110, 111, 112 and 114. Course may be repeated once for additional credit.

Credits: 3

ART 210 - Intermediate Studio Sculpture

The student will explore Sculpture with an increased level of production, critique, history and aesthetics. This course is intended to increase skill level while continuing to develop the student's personal aesthetic. Students will demonstrate a variety of sculptural techniques while understanding Sculpture's contemporary and historical contexts. Students are expected to be self-motivated in terms of idea generation and execution. Students will explore avenues to make their work more personal by combining technical skills with form and concept. primary emphasis will be placed on technical refinement alongside development of creative problem-solving skills. Through creative studio practice, students should develop the following emphasized artistic traits: ability to resist premature closure; sensitivity to problems; ability to synthesize. Repeatable: consult individual curriculum guide.

Prerequisites & Notes

One course at the basic studio level chosen from ART 100, 101, 105, 106, 107, 108, 109, 110, 111, 112 and 114. Course may be repeated once for additional credit.

Credits: 3

ART 211 - Intermediate Studio Fiber Art

The student will continue to explore Fiber Art with an increased level of production, critique, history and aesthetics. This course will provide students with opportunities to explore both traditional and non-traditional flexible materials, techniques and concepts within contemporary Fiber Art. Through two- and three-dimensional projects, students will continue to develop their skills, artistic perception and conceptual thinking. Through creative studio practice, students should develop the following emphasized artistic traits: ability to resist premature closure; sensitivity to problems; ability to synthesize. Repeatable: consult individual curriculum guide.

Prerequisites & Notes

One course at the basic studio level chosen from ART 100, 101, 105, 106, 107, 108, 109, 110, 111, 112 and 114

Credits: 3

ART 212 - Intermediate Studio Ceramics

The student will explore Ceramics with an increased level of production, critique, history and aesthetics. Students will explore avenues to make their work more personal by combining Ceramic technical skills with form and concept. Primary emphasis will be placed on technical refinement of wheel-throwing and hand-building construction alongside development of creative problem-solving skills. Various methods of glazing and firing are addressed as they relate to student work on specific projects. Technical refinement alongside development of creative problem-solving skills will be emphasized also. Through creative studio practice, students should develop the following emphasized artistic traits: ability to resist premature closure; sensitivity to problems; ability to synthesize. Repeatable: consult

individual curriculum guide.

Prerequisites & Notes

One course at the basic studio level chosen from ART 100, 101, 105, 106, 107, 108, 109, 110, 111, 112 and 114

Credits: 3

ART 213 - Intermediate Studio Graphic Design

The student will explore Graphic Design with an increased level of production, critique, history and aesthetics. This course is intended to increase skill level while continuing to develop the student's personal aesthetic. Creative responses to assignments will include the application of visual language skills to communicate ideas, meaning and information. Coursework will include traditional, digital and mixed media. Coursework will focus on studies in perception, visual organization, the graphic design process and ideation, with investigations into experimental and expressive aspects of graphic design. Through creative studio practice, students should develop the following emphasized artistic traits: ability to resist premature closure; sensitivity to problems; ability to synthesize. Repeatable: consult individual curriculum guide.

Prerequisites & Notes

One course at the basic studio level chosen from ART 100, 101, 105, 106, 107, 108, 109, 110, 111, 112 or 114

Credits: 3

ART 214 - Intermediate Studio Digital Media

The student will explore Digital media with an increased level of production, critique, history and aesthetics in order to achieve individual artistic goals. Emphasis will be placed upon production and process. Students will review fundamental technical and conceptual information necessary to further the creation of fine art pieces while maintaining a portfolio. New digital techniques will be explored as they become necessary to articulate and advance individual creative needs. Primary emphasis will be placed on technical refinement alongside development of creative problem-solving skills. Through creative studio practice, students should develop the following emphasized artistic traits: ability to resist premature closure; sensitivity to problems; ability to synthesize. Repeatable: consult individual guide.

Prerequisites & Notes

One course at the basic studio level chosen from ART 100, 101, 105, 106, 107, 108, 109, 110, 111, 112 and 114

Credits: 3

ART 225 - Overview of Western Art

A sweeping survey intended to acquaint the student with the stylistic development and chronology of the western tradition in the arts. Covers the period and styles prevalent in the Western World from the Beginnings of art to the modern era.

Credits: 3

ART 226 - Overview of World Art

A survey course intended to acquaint the student with the stylistic developments and chronology of the visual arts in Asia, Africa, India and South America. Special emphasis will be given to the expression of cultural, religious and

aesthetic purposes of art works created outside the western tradition.

Credits: 3

ART 290 - Experimental

A unique and specifically focused course within the general purview of a department which intends to offer it on a "one time only" basis and not as a permanent part of the department's curriculum.

Credits: 3

ART 295 - Workshop

A workshop is a program which is usually of short duration, narrow in scope, often non-traditional in content and format, and on a timely topic.

Credits: 3

ART 298 - Selected Topic

A **Selected Topics** course is a normal, departmental offering which is directly related to the discipline, but because of its specialized nature, may not be able to be offered on a yearly basis by the department.

Credits: 3

ART 300 - Art Seminar

A seminar for advanced art studio majors, designed to sharpen the students' critical and evaluation skills.

Prerequisites & Notes

6 credits of advanced studio

Credits: 3

ART 305 - Advanced Studio Drawing

This course will investigate an advanced level of drawing production, critique, history and aesthetics, and will focus on the achievement of individual artistic goals through the exploration of concept-based assignments. A wide range of traditional and non-traditional materials and processes will be utilized to further the skillful creation of artwork, and new drawing techniques will be explored to aid in the articulation of individual creative ideas. Emphasis will be placed upon making judgments and developing fluency through heightened production and an expanded exploration of process. Additionally, students will strengthen their ability to critically analyze artwork, and will maintain a drawing portfolio.

Prerequisites & Notes

One course at the Intermediate Studio level chosen from ART 205, 206, 207, 208, 209, 210, 211, 212, 213, or 214.

Credits: 3

ART 306 - Advanced Studio Painting

This course will investigate an advanced level of painting production, critique, history and aesthetics, and will focus on the achievement of individual artistic goals through the exploration of concept-based assignments. A wide range of traditional and non-traditional materials and processes will be utilized to further the skillful creation of artwork, and new drawing techniques will be explored to aid in the articulation of individual creative ideas. Emphasis will be placed upon making judgments and developing fluency through heightened production and an expanded exploration of process. Additionally, students will strengthen their ability to critically analyze artwork, and will maintain a painting portfolio.

Prerequisites & Notes

One course at the Intermediate Studio level chosen from ART 205, 206, 207, 208, 209, 210, 211, 212, 213, or 214.

Credits: 3

ART 307 - Advanced Studio Photography

This course will investigate an advanced level of photographic production, critique, history and aesthetics. Students will continue to investigate genres of photography, and new photographic techniques will be explored to aid in the articulation of individual artistic goals. Emphasis will be placed upon strengthening portfolios through heightened production and an expanded exploration of process. Students will continue to strengthen their ability to critically analyze artwork. Through creative studio practice, students should develop the following emphasized artistic traits: independence in making judgments and fluency in ideas and materials. Repeatable: consult individual curriculum guide.

Prerequisites & Notes

One course at the Intermediate Studio level chosen from ART 205, 206, 207, 208, 209, 210, 211, 212, 213, or 214.

Credits: 3

ART 308 - Advanced Studio Printmaking

This course will provide students with opportunities to explore techniques and concepts of printmaking at an advanced level. Through projects students will have an opportunity to develop their skills, artistic perception and conceptual thinking. The course will focus on students gaining independence in making judgments, and developing fluency in their art process. Through creative studio practice, students should be able to develop the following emphasized artistic traits: independence in making judgments and fluency in ideas and materials.

Prerequisites & Notes

One course at the Intermediate Studio level chosen from ART 205, 206, 207, 208, 209, 210, 211, 212, 213, or 214.

Credits: 3

ART 309 - Advanced Studio Metalsmithing

This course will investigate an advanced level of metalsmithing production, critique, history and aesthetics. Students will continue to investigate genres of metalsmithing, and new metalsmithing techniques will be explored to aid in the articulation of individual artistic goals. Emphasis will be placed upon strengthening portfolios through heightened production and an expanded exploration of process. Students will continue to strengthen their ability to critically analyze artwork. Through creative studio practice, students should develop the following emphasized artistic traits:

independence in making judgments and fluency in ideas and materials. Repeatable: consult individual curriculum guide.

Prerequisites & Notes

One course at the Intermediate Studio level chosen from ART 205, 206, 207, 208, 209, 210, 211, 212, 213, or 214.

Credits: 3

ART 310 - Advanced Studio Sculpture

This course will investigate an advanced level of Sculpture production, critique, history and aesthetics. Students will continue to investigate genres of Sculpture, and new Sculpture techniques will be explored to aid in the articulation of individual artistic goals. Emphasis will be placed upon strengthening portfolios through heightened production and an expanded exploration of process. Students will continue to strengthen their ability to critically analyze artwork. Through creative studio practice, students should develop the following emphasized artistic traits: independence in making judgments and fluency in ideas and materials. Repeatable: consult individual curriculum guide.

Prerequisites & Notes

One course at the Intermediate Studio level chosen from ART 205, 206, 207, 208, 209, 210, 211, 212, 213, or 214.

Credits: 3

ART 311 - Advanced Studio Fiber Art

This course will provide students with opportunities to explore traditional and non-traditional flexible materials, techniques and concepts of contemporary Fiber Art at an advanced level. Through two- and three-dimensional projects students will have an opportunity to develop their skills, artistic perception and conceptual thinking. The course will focus on students gaining independence in making judgments, and developing fluency in their art process. Through creative studio practice, students should be able to develop the following emphasized artistic traits: independence in making judgments and fluency in ideas and materials. Repeatable: consult individual curriculum guide.

Prerequisites & Notes

One course at the Intermediate Studio level chosen from ART 205, 206, 207, 208, 209, 210, 211, 212, 213, or 214.

Credits: 3

ART 312 - Advanced Studio Ceramics

This course will investigate an advanced level of ceramics production, critique, history and aesthetics, and will focus on the achievement of individual artistic goals through the exploration of functional and concept-based assignments. A wide range of traditional and non-traditional materials and processes will be utilized to further the skillful creation of artwork, and new ceramic techniques will be explored to aid in the articulation of individual creative endeavors. Emphasis will be placed on fluency through heightened production and an expanded exploration of process. Students will strengthen their ability to critically analyze artwork, and will maintain a ceramics portfolio. Through creative studio practice, students should develop the following emphasized artistic traits: independence in making judgments and fluency in ideas and materials. Repeatable: consult individual curriculum guide.

Prerequisites & Notes

One course at the Intermediate Studio level chosen from ART 205, 206, 207, 208, 209, 210, 211, 212, 213, or 214.

Credits: 3

ART 313 - Advanced Studio Graphic Design

This course will investigate an advanced level of graphic design production, critique, history and aesthetics, and will focus on the achievement of individual artistic goals through the exploration of concept-based assignments. A wide range of traditional and non-traditional materials and processes will be utilized to further the skillful creation of artwork, and new graphic design techniques will be through heightened production and an expanded exploration of process. Students will strengthen their ability to critically analyze artwork, and will maintain a graphic design portfolio. Through creative studio practice, students would develop the following emphasized artistic traits: independence in making judgments and fluency in ideas and materials. Repeatable: consult individual curriculum guide.

Prerequisites & Notes

One course at the Intermediate Studio level chosen from ART 202, 206, 207, 208, 209, 210, 211, 212, 213 or 214.

Credits: 3

ART 314 - Advanced Studio Digital Media

This course will investigate an advanced level of digital media production, critique, history and aesthetics, and will focus on the achievement of individual artistic goals through the exploration of concept-based assignments. A wide range of traditional and non-traditional materials and processes will be utilized to further the skillful creation of artwork, and new digital media techniques will be explored to aid in the articulation of individual creative endeavors. Emphasis will be placed on fluency through heightened production and an expanded exploration of process. Students will strengthen their ability to critically analyze artwork, and will maintain a digital media portfolio. Through creative studio practice, students should develop the following emphasized artistic traits: independence in making judgments and fluency in ideas and materials. Repeatable: consult individual curriculum guide.

Prerequisites & Notes

One course at the Intermediate Studio level chosen from ART 205, 206, 207, 208, 209, 210, 211, 212, 213, or 214.

Credits: 3

ART 315 - Master Studio

A course in which master artists and craftsmen speak to the history and development of their discipline. They will also demonstrate techniques and critique student work. May be repeated for a maximum of 9 credits.

Credits: 1

ART 317 - Elementary Art Methods and Materials

This course provides an exploration of age appropriate instructional methods, materials and techniques for comprehensive elementary art programs. Art education theory, developmental stages of artistic growth, the importance of the arts in the curriculum, issues of inclusion, differentiation of instruction and assessment, PA Standards for the Arts, and strategies to enhance interdisciplinary connections will be included. Opportunity is provided to engage in, and analyze, actual instruction and artistic products. Field placement required.

Prerequisites & Notes

Admission to and retention in the "BF A Art: Concentration in K-12 Art Teacher Preparation, Minimum overall GPA, professional conduct standards and PA clearances also apply.

Credits: 3

ART 325 - North American Art History

Explores the history of the visual arts produced on the North American continent and covers the artistic expressions of Native Americans and the development of European colonial art to the Second World War. Can be repeated for up to 6 credits.

Prerequisites & Notes

ART 225

Credits: 3

ART 335 - The Renaissance Tradition

Explores the historical development of the visual arts in Europe from the mid-14th century to the mid-17th century. Can be repeated for up to 6 credits.

Prerequisites & Notes

ART 225

Credits: 3

ART 345 - Foundations of Modern Art

The development of modern concepts and approaches in the visual arts from the late 18th century up to and including Impressionism in the late 19th century. Can be repeated for up to 6 credits.

Prerequisites & Notes

ART 225

Credits: 3

ART 355 - Early Modern Art

Explores the history of the visual arts during the late nineteenth century culminating with the surrealist movement before the Second World War. Can be repeated for up to 6 credits.

Prerequisites & Notes

ART 225

Credits: 3

ART 365 - Art Since 1945

Explores the development of the visual arts in the late twentieth century. It will cover the social, cultural and stylistic movements from Abstract Expressionism to contemporary art. Can be repeated for up to 6 credits.

Prerequisites & Notes

ART 225

Credits: 3

ART 390 - Experimental

A unique and specifically focused course within the general purview of a department which intends to offer it on a "one time only" basis and not as a permanent part of the department's curriculum.

Credits: 3

ART 395 - Workshop

A workshop is a program which is usually of short duration, narrow in scope, often non-traditional in content and format, and on a timely topic.

Credits: 3

ART 398 - Selected Topic

A **Selected Topics** course is a normal, departmental offering which is directly related to the discipline, but because of its specialized nature, may not be able to be offered on a yearly basis by the department.

Credits: 3

ART 405 - Senior Studio Drawing

The student will demonstrate intrinsic motivation and a high degree of self-awareness in a personal investigation of drawing production, critique, history and aesthetics, and will demonstrate self-directed behavior relevant to professionalism and artistry. Coursework will require an understanding of self that extends to an integral commitment in the production of drawing. The quality and caliber of drawing work produced in this course will define the student as a drawing artist.

Prerequisites & Notes

One course at the Advanced Studio level chosen from ART 305, 306, 307, 308, 309, 310, 311, 312, 313, or 314.

Credits: 3

ART 406 - Senior Studio Painting

The student will demonstrate intrinsic motivation and a high degree of self-awareness in a personal investigation of painting production, critique, history and aesthetics, and will demonstrate self-directed behavior relevant to professionalism and artistry. Coursework will require an understanding of self that extends to an integral commitment in the production of painting. The quality and caliber of drawing work produced in this course will define the student as a painter.

Prerequisites & Notes

One course at the Advanced Studio level chosen from ART 305, 306, 307, 308, 309, 310, 311, 312, 313, or 314.

Credits: 3

ART 407 - Senior Studio Photography

This course will encourage students to explore personal investigations of photographic production, critique, history and aesthetics. Students will demonstrate self-directed behavior relevant to professionalism and artistry. The course requires students to build a cohesive body of work with an integral emphasis on the photographic image, allowing students to supplement their technical and conceptual aptitude while developing a greater understanding of their placement in a larger historical context. Coursework will emphasize a high level of quantity, caliber and ambition to further articulate a professional portfolio. Through creative studio practice, students should develop a high degree of self-awareness and intrinsic motivation. Repeatable: consult individual curriculum guide.

Prerequisites & Notes

One course at the Advanced Studio level chosen from ART 305, 306, 307, 308, 309, 310, 311, 312, 313, or 314.

Credits: 3

ART 408 - Senior Studio Printmaking

The quality and caliber of prints produced in this course will define the student as an artist. Emphasis will be placed on artistic perception, developing concepts and individual artistic vision. Students will focus on a personal investigation of printmaking, technique, critique, history and aesthetics, and will demonstrate self-directed behavior relevant to professionalism and artistry. Through creative studio practice, students should develop a high degree of self-awareness and intrinsic motivation.

Prerequisites & Notes

One course at the Advanced Studio level chosen from ART 305, 306, 307, 308, 309, 310, 311, 312, 313, or 314.

Credits: 3

ART 409 - Senior Studio Metalsmithing

This course will encourage students to explore a personal investigation of metalsmithing production, critique, history and aesthetics. Students will demonstrate self-directed behavior relevant to professionalism and artistry. Coursework will require an understanding of self that extends to an integral commitment in the production of a variety of work that is representative of the student's individual aesthetic. The quality and caliber of work produced in this course will define the student as a metalsmith. Through creative studio practice, students should develop a high degree of self-awareness and intrinsic motivation. Repeatable: consult individual curriculum guide.

Prerequisites & Notes

One course at the Advanced Studio level chosen from ART 305, 306, 307, 308, 309, 310, 311, 312, 313, or 314.

Credits: 3

ART 410 - Senior Studio Sculpture

This course will encourage students to explore a personal investigation of Sculpture through production, critique, history and aesthetics. Students will demonstrate self-directed behavior relevant to professionalism and artistry. Coursework will require an understanding of self that extends to an integral commitment in the production of a variety of work that is representative of the student's individual aesthetic. The quality and caliber of work produced in this course will define the student as a sculptor. Through creative studio practice, students should develop a high degree of self-awareness and intrinsic motivation. Repeatable: consult individual curriculum guide.

Prerequisites & Notes

One course at the Advanced Studio level chosen from ART 305, 306, 307, 308, 309, 310, 311, 312, 313, or 314.

Credits: 3

ART 411 - Senior Studio Fiber Art

The quality and caliber of fiber artwork produced in this course will define the student as an artist. Emphasis will be placed on artistic perception, developing concepts and individual artistic vision. Students will focus on a personal investigation of fiber art materials, technique, critique, history and aesthetics, and will demonstrate self-directed behavior relevant to professionalism and artistry. Through creative studio practice, students should develop a high degree of self-awareness and intrinsic motivation. Repeatable: consult individual curriculum guide.

Prerequisites & Notes

One course at the Advanced Studio level chosen from ART 305, 306, 307, 308, 309, 310, 311, 312, 313 and 314

Credits: 3

ART 412 - Senior Studio Ceramics

This course will encourage students to explore a personal investigation of ceramics production, critique, history and aesthetics. Students will demonstrate self-directed behavior relevant to professionalism and artistry. Coursework will require an understanding of self that extends to an integral commitment in the production of ceramics. The quality and caliber of ceramic work produced in this course will define the student as a ceramic artist. Through creative studio practice, students should develop a high degree of self-awareness and intrinsic motivation. Repeatable: consult individual curriculum guide.

Prerequisites & Notes

One course at the Advanced Studio level chosen from ART 305, 306, 307, 308, 309, 310, 311, 312, 313, or 314.

Credits: 3

ART 413 - Senior Studio Graphic Design

This course will encourage students to explore a personal investigation of graphic design production, critique, history and aesthetics. Students will demonstrate self-directed behavior relevant to professionalism and artistry. Coursework will require an understanding of self that extends to an integral commitment in the production of graphic design. The quality and caliber of graphic design work produced in this course will define the student as a graphic artist. Through creative studio practice, students should develop a high degree of self-awareness and intrinsic motivation. Repeatable: consult individual curriculum guide.

Prerequisites & Notes

One course at the Advanced Studio level chosen from ART 305, 306, 307, 308, 309, 310, 311, 312, 313 or 314

Credits: 3

ART 414 - Senior Studio Digital Media

This course will encourage students to explore a personal investigation of digital media production, critique, history and aesthetics. Students will demonstrate self-directed behavior relevant to professionalism and artistry. Coursework will require an understanding of self that extends to an integral commitment in the production of digital media. The quality and caliber of digital media work produced in this course will define the student as a digital artist. Through creative studio practice, students should develop a high degree of self-awareness and intrinsic motivation. Repeatable: consult individual curriculum guide.

Prerequisites & Notes

One course at the Advanced Studio level chosen from ART 305, 306, 307, 308, 309, 310, 311, 312, 313, or 314.

Credits: 3

ART 420 - Art History Seminar

A seminar for students qualified to do independent study and research in art history. Topics selected through consultation with the instructor. Can be repeated for up to 6 credits.

Prerequisites & Notes

ART 225

Credits: 3

ART 425 - Senior Project Drawing

A capstone course emphasizing the articulation of ideas and presentation. This course provides independent study in drawing, culminating in a public exhibition demonstrating the student's artistic direction. The student will focus on concepts relevant to individual interests, and will determine the content and form based on past study of drawing production, critique, history and aesthetics. The student is responsible for all necessary components of a professional exhibition of their drawing work. Permission of the instructor.

Prerequisites & Notes

One course chosen from 305 or 405. By permission of instructor.

Credits: 3

ART 426 - Senior Project Painting

This course provides independent study in painting, culminating in a public exhibition demonstrating the student's artistic direction. The student will focus on concepts relevant to individual interests, and will determine the content and form based on past study of painting production, critique, history and aesthetics. The student is responsible for all necessary components of a professional exhibition of their graphic design work. Permission of the instructor.

Prerequisites & Notes

One course chosen from 306 or 406. By permission of instructor.

Credits: 3

ART 427 - Senior Project Photography

A capstone course emphasizing the articulation of ideas and presentation. Senior students will engage in an individually proposed project, culminating in a public exhibition with supporting materials that demonstrate the student's artistic expertise. The student will focus on an individual direction in Photography, the content and form of which will be determined by past photographic investigations, critique, history and aesthetics while working closely with the Photography professor. The student is responsible for all components of their projects while displaying a high level of self-awareness, intrinsic motivation, and professionalism. By permission of instructor.

Prerequisites & Notes

One course chosen from 307 or 407. By permission of instructor.

Credits: 3

ART 428 - Senior Project Printmaking

In this capstone course the senior student will engage in an individually proposed project, culminating in a public exhibition demonstrating the student's artistic direction. The student will focus on concepts relevant to individual interests in printmaking, and will determine the content and form based on past study of printmaking production creation, critique, history and aesthetics, and under the supervision of the Fiber Art Professor. The student is responsible for all necessary components of a professional exhibition of their work. By permission of the instructor.

Prerequisites & Notes

One course chosen from 308 or 408. By permission of instructor.

Credits: 3

ART 429 - Senior Project Metalsmithing

A capstone course emphasizing the articulation of ideas and presentation. Senior students will engage in an individually proposed project, culminating in a public exhibition with supporting materials that demonstrate the student's artistic expertise. The student will focus on an individual direction in Metalsmithing, the content and form of which will be determined by past studio investigations, critique, history and aesthetics while working closely with the Metalsmithing professor. The student is responsible for all components of their projects while displaying a high level of self-awareness, intrinsic motivation, and professionalism. By permission of instructor.

Prerequisites & Notes

One course chosen from 309 or 409. By permission of instructor.

Credits: 3

ART 430 - Senior Project Sculpture

A capstone course emphasizing the articulation of ideas and presentation. Senior students will engage in an individually proposed project, culminating in a public exhibition with supporting materials that demonstrate the student's artistic expertise. The student will focus on an individual direction in Sculpture, the content and form of which will be determined by past studio investigations, critique, history and aesthetics while working closely with the Sculpture professor. The student is responsible for all components of their projects while displaying a high level of self-awareness, intrinsic motivation, and professionalism. By permission of instructor.

Prerequisites & Notes

One course chosen from 310 or 410. By permission of instructor.

Credits: 3

ART 431 - Senior Project Fiber Art

In this capstone course the senior student will engage in an individually proposed project, culminating in a public exhibition demonstrating the student's artistic direction. The student will focus on concepts relevant to individual interests in fiber art, and will determine the content and form based on past study of fiber art production creation, critique, history and aesthetics, and under the supervision of the Fiber Art Professor. The student is responsible for all necessary components of a professional exhibition of their work. By permission of the instructor.

Prerequisites & Notes

One course chosen from 311 or 411. By permission of instructor.

Credits: 3

ART 432 - Senior Project Ceramics

A capstone course emphasizing the articulation of ideas and presentation. Senior students will engage in an individually proposed project, culminating in a public exhibition with supporting materials that demonstrate the student's artistic expertise. The student will focus on an individual direction in ceramics, the content and form of which will be determined by past ceramics investigations, critique, history and aesthetics while working closely with the ceramics professor. The student is responsible for all components of their projects while displaying a high level of self-awareness, intrinsic motivation, and professionalism. By permission of instructor.

Prerequisites & Notes

One course chosen from 312 or 412. By permission of the instructor.

Credits: 3

ART 433 - Senior Project Graphic Design

A capstone course emphasizing the articulation of ideas and presentation. Senior students will engage in an individually proposed project, culminating in a public exhibition with supporting materials that demonstrate the student's artistic expertise. The student will focus on an individual direction in Graphic Design, the content and form of which will be determined by past Graphic Design professor. The student is responsible for all components of their projects while displaying a high level of self-awareness, intrinsic motivation, and professionalism. By permission of instructor.

Prerequisites & Notes

Permission of the instructor

One course chosen from ART 313 or ART 413

Credits: 3

ART 434 - Senior Project Digital Media

A capstone course emphasizing the articulation of ideas and presentation. Senior students will engage in an individually proposed project, culminating in a public exhibition with supporting materials that demonstrate the student's artistic expertise. The student will focus on an individual direction in Digital Media, the content and form of which will be

determined by past digital media investigations, critique, history and aesthetics while working closely with the Digital Media professor. The student is responsible for all components of their projects while displaying a high level of self-awareness, intrinsic motivation, and professionalism. By permission of instructor.

Prerequisites & Notes

One course chosen from 314 or 414. By permission of instructor.

Credits: 3

ART 440 - Art Education Methods

This class meets once a week to discuss field placement experiences and teaching skills and fulfills part of the Pennsylvania Department of Education (PDE) Stage 3 Pre-Student Teaching Practicum requirements. Activities include discussions on research, development and preparation of art lesson plans, strategies for success in an inclusive art classroom, and analysis and assessment of teaching experiences.

Prerequisites & Notes

Class level: JR & SR

Degree program: BFA

Major: BFA Art

Pre-requisite: Permission of instructor

Co-requisite: ART 451

Credits: 1

ART 450 - Internship

Professional experiences geared to student vocational goals. Working in galleries, museums or graphic design studios, working with professional artists in their studios and other job-related experiences.

Prerequisites & Notes

Completion of 24 credits in studio art

Credits: 1 to 12

ART 451 - Art Education Methods Internship

This internship covers some of the Stage 3 Pre-Student Teaching field experiences: 90 hours of documented placement under the supervision and mentorship of certified K-12 Art Teacher(s). At least one experience during Stage 3 must include students with special needs in inclusive settings. Activities include assisting small or large groups of children, lesson development/preparation, and lesson plans. Observation and evaluation of teaching by the professor will occur near the end of the semester.

Prerequisites & Notes

Class level: JR & SR

Major: BFA Art

Pre-requisites: Permission of Instructor

Co-requisites: ART 440

Credits: 2

ART 475 - Extended Studio Drawing

This course provides individualized creative work in drawing that focuses on a specific concept, process, and/or style in order to improve portfolios while using studio facilities. By permission of instructor.

Prerequisites & Notes

Permission of the instructor

Credits: 1

ART 476 - Extended Studio Painting

This course provides individualized creative work in Painting that focuses on a specific concept, process, and/or style in order to improve portfolios while using studio facilities. By permission of instructor.

Prerequisites & Notes

Permission of the instructor

Credits: 1

ART 477 - Extended Studio Photography

This course provides individualized creative work in Photography that focuses on a specific concept, process, and/or style in order to improve portfolios while using studio facilities. By permission of instructor.

Prerequisites & Notes

Permission of the instructor

Credits: 1

ART 478 - Extended Studio Printmaking

This course provides individualized creative work in Printmaking that focuses on a specific concept, process, and/or style in order to improve portfolios while using studio facilities. By permission of instructor.

Prerequisites & Notes

Permission of the instructor

Credits: 1

ART 479 - Extended Studio Metalsmithing

This course provides individualized creative work in Metalsmithing that focuses on a specific concept, process, and/or style in order to improve portfolios while using studio facilities. By permission of instructor.

Prerequisites & Notes

Permission of the instructor

Credits: 1

ART 480 - Extended Studio Sculpture

Advanced work sculpture studio.

Prerequisites & Notes

Permission of the instructor

Credits: 1

ART 481 - Extended Studio Fiber Art

This course provides individualized creative work in Fiber Art that focuses on a specific concept process, and/or style in order to improve portfolios while using studio facilities. By permission of instructor.

Prerequisites & Notes

Permission of the instructor

Credits: 1

ART 482 - Extended Studio Ceramics

This course provides individualized creative work in Ceramics that focuses on a specific concept, process, and/or style in order to improve portfolios while using studio facilities. By permission of instructor.

Prerequisites & Notes

Permission of the instructor

Credits: 1

ART 483 - Extended Studio Graphic Design

This course provides individualized creative work in Graphic Design that focuses on a specific concept, process, and/or style in order to improve portfolios while using studio facilities. By permission of instructor.

Prerequisites & Notes

Permission of instructor

Credits: 1

ART 484 - Extended Studio Digital Media

This course provides individualized creative work in Digital Media that focuses on a specific concept, process, and/or style in order to improve portfolios while using studio facilities. By permission of instructor.

Prerequisites & Notes

Permission of the instructor

Credits: 1

ART 490 - Independent Study

Offers the opportunities of advanced creative activity in a single area of concentration (painting, graphics, ceramics, art history, etc.) to be chosen by the student with the consent of the department. Prerequisites: Junior or senior standing, completion of lower level course offerings in chosen area of concentration, acceptance of project proposal by the department and permission of the instructor, departmental chairperson and dean of the college where the study will be conducted.

Independent Study courses give students the opportunity to pursue research and/or studies that are not part of the university's traditional course offerings. Students work one on one or in small groups with faculty guidance and are typically required to submit a final paper or project as determined by the supervising professor.

Credits: 1 to 3

ART 495 - Workshop

A workshop is a program which is usually of short duration, narrow in scope, often non-traditional in content and format, and on a timely topic.

Credits: 3

ART 498 - Selected Topic

A **Selected Topics** course is a normal, departmental offering which is directly related to the discipline, but because of its specialized nature, may not be able to be offered on a yearly basis by the department.

Credits: 3

BIOL 100 - Introductory Biology Laboratory

This laboratory activity course is designed to introduce the non-biology major to science as a process. Basic biological concepts and principles are the focal points for the laboratory activities. The scientific process is used throughout the hands on exercises to facilitate the learning experience.

Credits: 1

BIOL 101 - General Biology

A principles course in biology, designed for non-biology majors, which emphasizes cellular structure and function, Mendelian and molecular genetics, reproduction, and classic and modern concepts of ecology and evolution.

Credits: 3

BIOL 102 - Human Biology

This non-biology majors course considers the human as a whole organism, with emphasis on the interrelationships of organ systems, the relationship to the environment, and human origins and genetics.

Credits: 3

BIOL 104 - Principles of Biology/Lab

A laboratory and lecture course that emphasizes basic biological principles to prepare students for subsequent sequential courses required of biology majors.

Credits: 4

BIOL 105 - Environmental Biology

A non-biology majors course which provides an introduction to ecological principles and concepts with an examination of the biological basis of contemporary environmental problems.

Credits: 3

BIOL 120 - Plants and Society

Basic structures, functions, and uses of plants. This course, for the non-biology major, will stress many of the economic and practical aspects of plants. It will also offer historical insights concerning the impact plants have had on world exploration, colonization, etc.

Credits: 3

BIOL 139 - University Seminar

University Seminar serves as the entry point to the Slippery Rock University general education program. With its small seminar setting and strong faculty-student interaction, the course promotes intellectual inquiry, critical and creative thinking, and academic excellence. Through varied content, the course introduces students to academic discourse and information literacy while exploring topics such as diversity and inclusion and global awareness. This course will set students along the path to becoming engaged with issues and scholarship important to a 21st century education while they learn about themselves and their place in the world.

Credits: 3

BIOL 190 - Experimental

A unique and specifically focused course within the general purview of a department which intends to offer it on a "one time only" basis and not as a permanent part of the department's curriculum.

Credits: 3

BIOL 195 - Workshop

A workshop is a program which is usually of short duration, narrow in scope, often non-traditional in content and format, and on a timely topic.

Credits: 3

BIOL 198 - Selected Topic

A **Selected Topics** course is a normal, departmental offering which is directly related to the discipline, but because of its specialized nature, may not be able to be offered on a yearly basis by the department.

Credits: 3

BIOL 201 - General Botany/Lab

Basic biochemical, morphological, and physiological aspects of plant biology as they relate to evolution. Includes a lab.

Prerequisites & Notes

BIOL 100 & 101 or BIOL 104; minimum average grade of C in prerequisite course(s)

Credits: 4

BIOL 207 - Land Plants and Their Environment/Lab

This course for non-biology majors surveys the common plants native to Pennsylvania. Includes a lab.

Credits: 3

BIOL 208 - Introduction to Wildlife Management/Lab

For non-biology majors, this course covers basic ecological principles with emphasis on the taxonomy and life histories of vertebrate animals. Includes a lab.

Credits: 3

BIOL 210 - Medical Microbiology/Lab

The study of pathogenic microorganisms to include taxonomy, structure, biological activities, host defense mechanisms, disease transmission, and disease states. Includes a lab.

Prerequisites & Notes

BIOL 101 or 102 or 216

Credits: 3

BIOL 212 - General Zoology/Lab

The anatomy, physiology, ecology, and economic importance of representative animals with emphasis on the understanding of development and the evolutionary blueprint of the animal kingdom. Includes a lab.

Prerequisites & Notes

BIOL 100 & 101 or BIOL 104; minimum average grade of C in prerequisite course(s)

Credits: 4

BIOL 216 - Anatomy and Physiology I /Lab

The first of two lecture and laboratory courses for non-biology majors which surveys the normal structure and function of the human body. It is recommended that 216 be taken prior to 217. Includes a lab.

Credits: 3

BIOL 217 - Anatomy and Physiology II/Lab

The second of two lecture and laboratory courses for non-biology majors which surveys the normal structure and function of the human body. It is recommended that 216 be taken prior to 217. Includes a lab.

Credits: 3

BIOL 250 - Genetics/Lab

An introductory course that covers transmission genetics, molecular genetics, and population genetics, with an emphasis on problem-solving. Examples in both plants and animals (including humans) are considered. Includes a lab.

Prerequisites & Notes

BIOL 100 & 101 or BIOL 104; minimum average grade of C in prerequisite course(s)

Credits: 4

BIOL 290 - Experimental

A unique and specifically focused course within the general purview of a department which intends to offer it on a "one time only" basis and not as a permanent part of the department's curriculum.

Credits: 3

BIOL 295 - Workshop

A workshop is a program which is usually of short duration, narrow in scope, often non-traditional in content and format, and on a timely topic.

Credits: 3

BIOL 298 - Selected Topic

A **Selected Topics** course is a normal, departmental offering which is directly related to the discipline, but because of its specialized nature, may not be able to be offered on a yearly basis by the department.

Credits: 3

BIOL 300 - Social and Ethical Issues in Genetics

Advances in genetics have the potential to do much good, but they may also create difficult social and ethical issues that we are unprepared for. This course seeks to provide students of all majors with the necessary framework for arriving at their own conclusions about the proper role of genetic technology, for themselves, their families, and society at large.

Prerequisites & Notes

Advanced standing and BIOL 101 or 102 or 104

Credits: 3

BIOL 301 - Forest Ecology

This course is offered as part of the Pymatuning Laboratory in conjunction with the University of Pittsburgh. For more information, please contact the Biology department, 724-738-2023.

Prerequisites & Notes

(BIOL 100 and BIOL 101) or BIOL 104 and BIOL 201; minimum average grade of C in prerequisite course(s)

Credits: 3

BIOL 302 - Ecology of Amphibians & Reptiles / Lab

This field course is offered by the University of Pittsburgh to Slippery Rock University students who enroll in the summer program at the Pymatuning Laboratory of Ecology. For more information, please contact the Biology Department, 724-738-2023.

Prerequisites & Notes

(BIOL 100 and BIOL 101) or BIOL 104 and BIOL 212; minimum average grade of C in prerequisite course(s)

Credits: 3

BIOL 303 - Behavioral Ecology / Lab

This field course is offered by the University of Pittsburgh to Slippery Rock University students who enroll in the summer program at the Pymatuning Laboratory of Ecology. For more information, please contact the Biology Department, 724-738-2023.

Prerequisites & Notes

(BIOL 100 and BIOL 101) or BIOL 104 and (BIOL 201 OR BIOL 212); minimum average grade of C in prerequisite course(s)

Credits: 3

BIOL 305 - Wetlands and Aquatic Plants / Lab

This course deals with the identification and quantification of phytoplankton and vascular hydrophytes, with emphasis placed on the productivity of aquatic plants and their importance as indicator organisms. Includes a lab.

Prerequisites & Notes

(BIOL 100 and BIOL 101) or BIOL 104; minimum average grade of C in prerequisite course(s)

Credits: 3

BIOL 306 - Freshwater Biomonitoring / Lab

This course covers the identification and quantification of fish, zooplankton, and benthos organisms, with emphasis placed on the productivity of aquatic animals and their importance as indicator organisms. Includes a lab.

Prerequisites & Notes

(BIOL 100 and BIOL 101) or BIOL 104 and CHEM 108; minimum average grade of C in prerequisite course(s)

Credits: 3

BIOL 307 - Vertebrate Ecology / Lab

This field course is offered by the University of Pittsburgh to Slippery Rock University students who enroll in the summer program at the Pymatuning Laboratory of Ecology. For more information, please contact the Biology Department, 724-738-2023.

Prerequisites & Notes

(BIOL 100 and BIOL 101) or (BIOL 104 and BIOL 212); minimum average grade of C in prerequisite course(s)

Credits: 3

BIOL 308 - Aquatic Ecosystem Management / Lab

This field course is offered by the University of Pittsburgh to Slippery Rock University students who enroll in the summer program at the Pymatuning Laboratory of Ecology. For more information, please contact the Biology Department, 724-738-2023.

Prerequisites & Notes

(BIOL 100 and BIOL 101) or BIOL 104 and BIOL 201 or 212; minimum average grade of C in prerequisite course(s)

Credits: 3

BIOL 310 - Plant Systematics / Lab

Evolutionary trends in floristic morphology are used to examine family relationships among the major groups of vascular plants. Includes a lab.

Prerequisites & Notes

(BIOL 100 and BIOL 101) or BIOL 104 and BIOL 201; minimum average grade of C in prerequisite course(s)

Credits: 3

BIOL 311 - Entomology / Lab

Insects, including their taxonomy, structure, function, ecology, and economic importance.

Prerequisites & Notes

(BIOL 100 and BIOL 101) or BIOL 104 and BIOL 212; minimum average grade of C in prerequisite course(s)

Credits: 3

BIOL 313 - Herpetology / Lab

This field course is offered by the University of Pittsburgh to Slippery Rock University students who enroll in the summer program at the Pymatuning Laboratory of Ecology. For more information, please contact the Biology Department, 724-738-2023.

Prerequisites & Notes

(BIOL 100 and BIOL 101) or BIOL 104 and BIOL 212; minimum average grade of C in prerequisite course(s)

Credits: 3

BIOL 314 - Medical Parasitology/Lab

A lecture and laboratory course which emphasizes the parasites of medical importance.

Prerequisites & Notes

(BIOL 100 and BIOL 101) or BIOL 104 and BIOL 210 or 212; minimum average grade of C

Credits: 1

BIOL 315 - Medical Mycology/Lab

A lecture and laboratory course which emphasizes the fungi of medical importance.

Prerequisites & Notes

(BIOL 100 and BIOL 101) or BIOL 104 and BIOL 210 or 201; minimum average grade of C

Credits: 1

BIOL 316 - Medical Immunology/Lab

A lecture and laboratory course for medical technology majors which emphasizes immunological principals of medical importance. Includes a lab.

Prerequisites & Notes

(BIOL 100 and BIOL 101) or BIOL 104 and BIOL 210 or 250; minimum average grade of C

Credits: 1

BIOL 317 - Ecology and Fungi

This field course is offered by the University of Pittsburgh to Slippery Rock University students who enroll in the summer program at the Pymatuning Laboratory of Ecology. For more information, please contact the Biology Department, 724-738-2023.

Credits: 3

BIOL 319 - Medical Virology with a Lab

A lecture and laboratory course which discusses viruses of medical importance. Lecture content will focus on the life cycle, pathology and treatment of clinically relevant viruses. Laboratory content may teach students about topics such as, but not limited to, calculating viral load, detecting lysogens, detecting viruses by ELISA and immunity in lysogens.

Prerequisites & Notes

Prerequisites: (Undergraduate level BIOL 100 Minimum Grade of C and Undergraduate level BIOL 101 Minimum Grade of C) or Undergraduate level BIOL 104 Minimum Grade of C and (Undergraduate level BIOL 210 Minimum Grade of C or Undergraduate level BIOL 250 Minimum Grade of C)

Notes:

Course restricted to: Sophomore level students with 45 or more credits, junior level students, senior level students.

Course restricted to: Biology majors and minors.

Credits: 1

BIOL 320 - Ornithology / Lab

Anatomy, physiology, taxonomy, ecology, and behavior of birds. Two weekend field trips are required. Includes a lab.

Prerequisites & Notes

(BIOL 100 and BIOL 101) or BIOL 104 and BIOL 212; minimum average grade of C in prerequisite course(s)

Credits: 3

BIOL 321 - Wildlife Management / Lab

This field course is offered by the University of Pittsburgh to Slippery Rock University students who enroll in the summer program at the Pymatuning Laboratory of Ecology. For more information, please contact the Biology Department, 724-738-2023.

Prerequisites & Notes

(BIOL 100 and BIOL 101) or BIOL 104 and BIOL 212; minimum average grade of C in prerequisite course(s)

Credits: 3

BIOL 322 - Conservation Biology / Lab

This field course is offered by the University of Pittsburgh to Slippery Rock University students who enroll in the summer program at the Pymatuning Laboratory of Ecology. For more information, please contact the Biology Department, 724-738-2023.

Prerequisites & Notes

(BIOL 100 and BIOL 101) or BIOL 104 and BIOL 201 or 212; minimum average grade of C in prerequisite course(s)

Credits: 3

BIOL 323 - Field Stream Ecology / Lab

This field course is offered by the University of Pittsburgh to Slippery Rock University students who enroll in the summer program at the Pymatuning Laboratory of Ecology. For more information, please contact the Biology Department, 724-738-2023.

Prerequisites & Notes

(BIOL 100 and BIOL 101) or BIOL 104 and BIOL 212; minimum average grade of C in prerequisite course(s)

Credits: 3

BIOL 325 - Biometry / Lab

An introduction to statistical techniques and experimental design as applied to biological problems. Descriptive methods, tests of significance, linear regression, correlation, analysis of variance and covariance, and non-parametric techniques are included. Use of PC and/or mainframe computer is required. Includes a lab.

Prerequisites & Notes

(BIOL 100 and BIOL 101) or BIOL 104; minimum average grade of C in prerequisite course(s)

Credits: 3

BIOL 326 - Field Methods in Biogeography / Lab

This field course is offered by the University of Pittsburgh to Slippery Rock University students who enroll in the summer program at the Pymatuning Laboratory of Ecology. For more information, please contact the Biology Department, 724-738-2023.

Prerequisites & Notes

(BIOL 100 and BIOL 101) or BIOL 104 and BIOL 201 or 212; minimum average grade of C in prerequisite course(s)

Credits: 3

BIOL 327 - Limnology / Lab

This field course is offered by the University of Pittsburgh to Slippery Rock University students who enroll in the summer program at the Pymatuning Laboratory of Ecology. For more information, please contact the Biology Department, 724-738-2023.

Prerequisites & Notes

(BIOL 100 and BIOL 101) or BIOL 104 and BIOL 201 or 212; minimum average grade of C in prerequisite course(s)

Credits: 3

BIOL 330 - Microbiology/Lab

A consideration of the structure, metabolism, growth, and genetics of microorganisms with emphasis placed on the bacteria and viruses. Includes a lab.

Prerequisites & Notes

(BIOL 100 and BIOL 101) or BIOL 104 and BIOL 250 and CHEM 200 or 201; minimum average grade of C in prerequisite course(s)

Credits: 3

BIOL 331 - Mammology / Lab

This field course is offered by the University of Pittsburgh to Slippery Rock University students who enroll in the summer program at the Pymatuning Laboratory of Ecology. For more information, please contact the Biology Department, 724-738-2023.

Prerequisites & Notes

(BIOL 100 and BIOL 101) or BIOL 104 and BIOL 212; minimum average grade of C in prerequisite course(s)

Credits: 3

BIOL 335 - Cell Biology/Lab

Lecture and laboratory investigations related to cellular structure and function. Topics include consideration of extracellular matrix, cell surface, internalization, intracellular signaling and routing, cell-cell communication, renewal, and development. Includes a lab.

Prerequisites & Notes

(BIOL 100 and BIOL 101) or BIOL 104 and BIOL 250 and CHEM 200 or 201; minimum average grade of C in prerequisite course(s)

Credits: 3

BIOL 340 - Vertebrate Anatomy/Lab

A comparative study of the adult structure of the organs and systems of representative vertebrates. Includes a lab.

Prerequisites & Notes

(BIOL 100 and BIOL 101) or BIOL 104 and BIOL 212; minimum average grade of C in prerequisite course(s)

Credits: 3

BIOL 343 - Embryology / Lab

Developmental processes of vertebrate embryology. A comparative study of gaetogenesis, fertilization, cleavage, gastrulation, organogenesis, and embronic adaptations. Includes a lab.

Prerequisites & Notes

(BIOL 100 and BIOL 101) or BIOL 104 and BIOL 212 and BIOL 340; minimum average grade of C in prerequisite course(s)

Credits: 3

BIOL 345 - Introduction to Biological Electron Microscopy

An introduction to the theoretical basis and practice of routine biological electron microscopy. Experiences in the preparation of specimens for transmission and scanning electron microscopy will be presented. The course presentation will involve a one-week workshop and two hours per week during the semester.

Prerequisites & Notes

(BIOL 100 and BIOL 101) or BIOL 104 and BIOL 201 and BIOL 212 and BIOL 250; minimum average grade of C in prerequisite course(s)

Credits: 2

BIOL 350 - Evolution

Stresses evolution as a process. Evidence of early theories, population genetics and ecology, modern synthetic theory, speciation, phylogeny, and the major features characteristic of organic evolution are included.

Prerequisites & Notes

(BIOL 100 and BIOL 101) or BIOL 104 and BIOL 201, 212, 250; minimum average grade of C in prerequisite course(s)

Credits: 3

BIOL 356 - Field Ecology / Lab

This field course is offered by the University of Pittsburgh to Slippery Rock University students who enroll in the summer program at the Pymatuning Laboratory of Ecology. For more information, please contact the Biology Department, 724-738-2023.

Prerequisites & Notes

(BIOL 100 and BIOL 101) or BIOL 104 and BIOL 201 or 212; minimum average grade of C in prerequisite course(s)

Credits: 3

BIOL 357 - Environmental Microbiology / Lab

The interactions of microorganisms with their environment and with other organisms in nutrient cycles and environmental bioremediation, and the effects of microbial activity on plants and animals. Includes a lab.

Prerequisites & Notes

(BIOL 100 and BIOL 101) or 104 and CHEM 200 or 202; minimum average grade of C in prerequisite course(s)

Credits: 4

BIOL 360 - Field Botany

A field course covering the flora of western Pennsylvania. Students will be expected to identify in the field approximately 225 vascular plants.

Prerequisites & Notes

(BIOL 100 and BIOL 101) or BIOL 104 and BIOL 201; minimum average grade of C in prerequisite course(s)

Credits: 3

BIOL 361 - Flora of Western Pennsylvania

A field class with a lecture component. The primary focus of the class is to enhance student understanding of the taxonomy and ecology of species that compose our flora in western Pennsylvania. Organisms that will be covered include: flowering plants (woody angiosperms and common wildflowers), conifers, ferns & fern allies, bryophytes, lichens, and some representative fungi and macroalgae in our flora. Terminology associated with general plant/fungal/algal structure as well as life cycles of these aforementioned organisms will be described. Students will be introduced to both terrestrial and aquatic ecosystems and the habitats that select species require.

Prerequisites & Notes

Prerequisites: Min grade of C: (BIOL 100 and BIOL 101) or BIOL 104.

Credits: 3

BIOL 370 - Molecular Biology/Lab

A lecture and laboratory study of the structure and function of biological macromolecules and of the functions of living cells at the molecular level. Topics include macromolecular structures, gene expression and regulation, and manipulations of genetic material. Includes a lab.

Prerequisites & Notes

(BIOL 100 and BIOL 101) or BIOL 104 and BIOL 250 and CHEM 201 or CHEM 202; minimum average grade of C in prerequisite course(s)

Credits: 3

BIOL 371 - Vertebrate Field Zoology

Taxonomy, life histories, and ecological relationships of representative vertebrates are stressed. Several field trips are required.

Prerequisites & Notes

(BIOL 100 and BIOL 101) or BIOL 104 and BIOL 212; minimum average grade of C in prerequisite course(s)

Credits: 3

BIOL 373 - Ichthyology / Lab

This field course is offered by the University of Pittsburgh to Slippery Rock University students who enroll in the summer program at the Pymatuning Laboratory of Ecology. For more information, please contact the Biology Department, 724-738-2023.

Prerequisites & Notes

(BIOL 100 and BIOL 101) or BIOL 104 and BIOL 212; minimum average grade of C in prerequisite course(s)

Credits: 3

BIOL 375 - Ecology of Fish / Lab

This field course is offered by the University of Pittsburgh to Slippery Rock University students who enroll in the summer program at the Pymatuning Laboratory of Ecology. For more information, please contact the Biology Department, 724-738-2023.

Prerequisites & Notes

(BIOL 100 and BIOL 101) or BIOL 104 and BIOL 212; minimum average grade of C in prerequisite course(s)

Credits: 3

BIOL 390 - Experimental

A unique and specifically focused course within the general purview of a department which intends to offer it on a "one time only" basis and not as a permanent part of the department's curriculum.

Credits: 3

BIOL 395 - Workshop

A workshop is a program which is usually of short duration, narrow in scope, often non-traditional in content and format, and on a timely topic.

Credits: 3

BIOL 398 - Selected Topic

A **Selected Topics** course is a normal, departmental offering which is directly related to the discipline, but because of its specialized nature, may not be able to be offered on a yearly basis by the department.

Credits: 3

BIOL 400 - Disease Ecology

This field course is offered by the University of Pittsburgh to Slippery Rock University students who enroll in the summer program at the Pymatuning Laboratory of Ecology. For more information, please contact the Biology Department, 724-738-2023.

Credits: 3

BIOL 401 - Ecology/Lab

Emphasis is placed on the structure, composition, and dynamics of ecosystems. Lab work primarily consists of field studies.

Prerequisites & Notes

BIOL 101 or 104, and CHEM 108; minimum average grade of C in prerequisite course(s)

Credits: 3

BIOL 402 - Biogeography / Lab

This field course is offered by the University of Pittsburgh to Slippery Rock University students who enroll in the summer program at the Pymatuning Laboratory of Ecology. For more information, please contact the Biology Department, 724-738-2023.

Prerequisites & Notes

(BIOL 100 and BIOL 101) or BIOL 104 and BIOL 201 and BIOL 212 and BIOL 250; minimum average grade of C in prerequisite course(s)

Credits: 3

BIOL 405 - Animal Physiological Ecology / Lab

The adaptations of animals to deal with specialized environmental situations are studied at levels ranging from biochemical to organismal. Includes a lab.

Prerequisites & Notes

(BIOL 100 and BIOL 101) or BIOL 104 and BIOL 212, CHEM 107, CHEM 108; minimum average grade of C in prerequisite course(s)

Credits: 4

BIOL 410 - Animal Physiology/Lab

Basic animal physiological processes, including a synthesis that begins at the molecular level and moves to the more complex cellular and organismal levels. Includes a lab.

Prerequisites & Notes

Co-requisite: (BIOL 100 and BIOL 101) or BIOL 104 and BIOL 212, CHEM 201; minimum average grade of C in prerequisite course(s)

Credits: 3

BIOL 411 - Population Biology / Lab

This field course is offered by the University of Pittsburgh to Slippery Rock University students who enroll in the summer program at the Pymatuning Laboratory of Ecology. For more information, please contact the Biology Department, 724-738-2023.

Prerequisites & Notes

BIOL250

Credits: 3

BIOL 412 - Population Biology

This field course is offered by the University of Pittsburgh to Slippery Rock University students who enroll in the summer program at the Pymatuning Laboratory of Ecology. For more information, please contact the Biology Department, 724-738-2023.

Prerequisites & Notes

(BIOL 100 and BIOL 101) or BIOL 104 and BIOL 250; with a minimum grade of C

Credits: 3

BIOL 430 - Pathogenic Microbiology / Lab

This course examines the role of bacteria in disease processes with emphasis on host-pathogen interactions and mechanisms by which pathogenic bacteria cause disease. General topics to be discussed include pathogenesis, epidemiology, and characteristics of the major pathogenic bacteria, which allow them to produce a disease state in the

host. Includes a lab.

Prerequisites & Notes

(BIOL 100 and BIOL 101) or BIOL 104 and BIOL 250, BIOL 330; minimum average grade of C in prerequisite course(s)

Credits: 3

BIOL 450 - Biology Internship

This course will permit the biology major to obtain credit for on-the-job experience in such areas as hospitals, greenhouses, nurseries, sewage plants, fish, and game commissions, park service, plant breeders, and seed producers, veterinary medicine, etc.

Prerequisites & Notes

(BIOL 100 and BIOL 101) or BIOL 104 and BIOL 201, BIOL 212, BIOL 250; minimum average grade of C in prerequisite course(s). CHEM 107, CHEM 108, CHEM 111, CHEM 112, CHEM 201, CHEM 202, CHEM 211, CHEM 212; minimum average grade of D in prerequisite course(s)

Credits: 1 to 6

BIOL 451 - Plant Physiology / Lab

A lecture-laboratory study of the functional relationships of the plant body including such topics as nutrition, water relations, photosynthesis, photo-periodism, hormones, and growth processes.

Prerequisites & Notes

(BIOL 100 and BIOL 101) or BIOL 104 and BIOL 201 and CHEM 201; minimum average grade of C in prerequisite course(s)

Credits: 3

BIOL 465 - Plant Anatomy / Lab

A macroscopic and microscopic laboratory study of vascular plants. Tissue and organ structure and development in a wide variety of plant groups are emphasized. Includes a lab.

Prerequisites & Notes

(BIOL 100 and BIOL 101) or BIOL 104 and BIOL 201; minimum average grade of C in prerequisite course(s)

Credits: 3

BIOL 470 - Histology / Lab

Microscopic structure and arrangement of tissues in multicellular organisms. Prepared microscopic slides of representative animal organs are studied. Includes a lab.

Prerequisites & Notes

(BIOL 100 and BIOL 101) or BIOL 104 and BIOL 212; minimum average grade of C in prerequisite course(s)

Credits: 3

BIOL 490 - Independent Study

Independent research under the guidance of a faculty member. Prerequisite: Permission of the instructor, departmental chairperson, and dean of the college where the study will be conducted. (repeatable up to 6 credits)

Independent Study courses give students the opportunity to pursue research and/or studies that are not part of the university's traditional course offerings. Students work one on one or in small groups with faculty guidance and are typically required to submit a final paper or project as determined by the supervising professor.

Credits: 1 to 3

BIOL 492 - Biology Seminar

For junior and senior biology majors. Each semester a different area of current research interest is chosen for study.

Prerequisites & Notes

(BIOL 100 and BIOL 101) or BIOL 104 and BIOL 201, BIOL 212, and BIOL 250; minimum average grade of C in prerequisite course(s)

Credits: 1

BIOL 495 - Workshop

A workshop is a program which is usually of short duration, narrow in scope, often non-traditional in content and format, and on a timely topic.

Credits: 3

BIOL 498 - Selected Topics

The in depth examination of a specific topic. The nature of the topic selected and its treatment determined in consultation with the instructor.

A **Selected Topics** course is a normal, departmental offering which is directly related to the discipline, but because of its specialized nature, may not be able to be offered on a yearly basis by the department.

Credits: 1 to 3

BIOL 590 - Experimental

A unique and specifically focused course within the general purview of a department which intends to offer it on a “one time only “basis and not as a permanent part of the department’s curriculum

Credits: 3

BIOL 595 - Workshop

A workshop is a program which is usually of short duration, narrow in scope, often non-traditional in content and format, and on a timely topic.

Credits: 1

BIOL 598 - Selected Topic

A **Selected Topics** course is a normal, departmental offering which is directly related to the discipline, but because of its specialized nature, may not be able to be offered on a yearly basis by the department.

Credits: 3

BUSA 130 - Dynamics of Global Commerce

Exploration of the challenges of business operations in the global market place. Topics discussed include the business, economic, social, and political aspects of the global market place. This may include, but not be limited to, topics such as e-commerce, entrepreneurship, sustainability and business ethics.

Credits: 3

BUSA 139 - University Seminar

University Seminar serves as the entry point to the Slippery Rock University general education program. With its small seminar setting and strong faculty-student interaction, the course promotes intellectual inquiry, critical and creative thinking, and academic excellence. Through varied content, the course introduces students to academic discourse and information literacy while exploring topics such as diversity and inclusion and global awareness. This course will set students along the path to becoming engaged with issues and scholarship important to a 21st century education while they learn about themselves and their place in the world.

Credits: 3

BUSA 303 - Issues in Global Business

This course will focus on fundamental issues in the modern globalization of business. The topics covered will include the cultural environments in which business work, politics and law in global business, economic integration, global trade and investment, global finance, global operations and managing global businesses. A special emphasis will be placed on the challenges and opportunities presented to global businesses by the social, political and economic diversity encountered in the global marketplace.

Prerequisites & Notes

ECON 201 AND ECON 202

Credits: 3

BUSA 315 - Economics of Sustainable Development

Economic causes and effects of pollution are discussed along with the issue of sustainable economic development. Government policy with respect to the environment and renewable energy will be surveyed. The framework connection between sustainability and the core functions of business for profit will be presented.

Prerequisites & Notes

Prerequisite: ECON 202

Credits: 3

BUSA 340 - Legal Environment of Business I

A study of the various processes available to resolve business disputes and an exploration of complex legal relationships that affect business, including contracts, business formations, employment, and torts and consumer law.

Credits: 3

BUSA 370 - Sustainable Entrepreneurship and Innovation

This integrative course introduces students to issues related to sustainable new venture creation. It includes topics such as the importance of innovation and creativity in opportunity recognition and the design of sustainable business models, industry/market analysis, resource acquisition and disposition, assessing a venture's financial strength, and ethical legal issues. Students will learn the entrepreneurial process while acknowledging multiple stakeholders and addressing social, economic and environmental concerns.

Prerequisites & Notes

FIN 320; MGMT 351; MRKT 330 or permission of instructor

Credits: 3

BUSA 451 - Employment Law

This course covers the law as it applies to all aspects of the employer - employee relation, including union activity, discrimination, selection, testing and employment contracts.

Prerequisites & Notes

MGMT 351

Credits: 3

BUSA 459 - Sustainable Business Consulting

In this course student teams engage in field-based consulting to analyze actual problem situations involving sustainability for regional businesses.

Credits: 3

CDEV 139 - University Seminar

University Seminar serves as the entry point to the Slippery Rock University general education program. With its small seminar setting and strong faculty-student interaction, the course promotes intellectual inquiry, critical and creative thinking, and academic excellence. Through varied content, the course introduces students to academic discourse and information literacy while exploring topics such as diversity and inclusion and global awareness. This course will set students along the path to becoming engaged with issues and scholarship important to a 21st century education while they learn about themselves and their place in the world.

Credits: 3

CDEV 190 - Experimental

A unique and specifically focused course within the general purview of a department which intends to offer it on a "one time only "basis and not as a permanent part of the department's curriculum.

Credits: 1 to 3

CDEV 195 - Workshop

A workshop is a program which is usually of short duration, narrow in scope, often non-traditional in content and format, and on a timely topic.

Credits: 1 to 3

CDEV 198 - Selected Topic

A **Selected Topics** course is a normal, departmental offering which is directly related to the discipline, but because of its specialized nature, may not be able to be offered on a yearly basis by the department.

Credits: 1 to 3

CDEV 201 - Interpersonal and Group Dynamics

Interpersonal behavior in small groups, with attention to group structure, individual factors, communication, and techniques. Treatment of leadership, group pressures, the effect of the group on personality, and group aims.

Credits: 3

CDEV 248 - Human Development and Education

A study of the various stages of physical, intellectual, and emotional development, from pre-school age through adolescence, with reference to the effects upon the learning and educational process.

Credits: 3

CDEV 290 - Experimental

A unique and specifically focused course within the general purview of a department which intends to offer it on a "one time only "basis and not as a permanent part of the department's curriculum.

Credits: 1 to 3

CDEV 295 - Workshop

A workshop is a program which is usually of short duration, narrow in scope, often non-traditional in content and format, and on a timely topic.

Credits: 1 to 3

CDEV 298 - Selected Topic

A **Selected Topics** course is a normal, departmental offering which is directly related to the discipline, but because of its specialized nature, may not be able to be offered on a yearly basis by the department.

Credits: 1 to 3

CDEV 390 - Experimental

A unique and specifically focused course within the general purview of a department which intends to offer it on a "one time only" basis and not as a permanent part of the department's curriculum.

Credits: 1 to 3

CDEV 395 - Undergraduate Workshops

Special topics of interest to undergraduates and selected community members.

A workshop is a program which is usually of short duration, narrow in scope, often non-traditional in content and format, and on a timely topic.

Credits: 1 to 3

CDEV 398 - Selected Topic

A **Selected Topics** course is a normal, departmental offering which is directly related to the discipline, but because of its specialized nature, may not be able to be offered on a yearly basis by the department.

Credits: 1 to 3

CDEV 490 - Independent Study

A program of independent work conducted by a student who has demonstrated academic proficiency. Prerequisite: Permission of the instructor, advisor, departmental chairperson, and dean of the college where the study will be conducted.

Independent Study courses give students the opportunity to pursue research and/or studies that are not part of the university's traditional course offerings. Students work one on one or in small groups with faculty guidance and are typically required to submit a final paper or project as determined by the supervising professor.

Credits: 1 to 3

CDEV 495 - Workshop

A workshop is a program which is usually of short duration, narrow in scope, often non-traditional in content and format, and on a timely topic.

Credits: 1 to 3

CDEV 498 - Selected Topic

A **Selected Topics** course is a normal, departmental offering which is directly related to the discipline, but because of its specialized nature, may not be able to be offered on a yearly basis by the department.

Credits: 1 to 3

CHEM 104 - Introduction Chemistry I

This course is the first course in a two-semester sequence for non-science majors which introduces the fundamental principles of Chemistry. Although this course serves as a prerequisite for the next course in the sequence (CHEM 106), it is also designed as a stand-alone course. This allows students to take either this course alone or the two-semester sequence and still obtain a basic understanding of chemical principles. The principles of chemistry are developed and illustrated through selective application. Note: This course is not a substitution for CHEM 107 and students cannot receive credit for CHEM 104 and CHEM 107. Also note that this course does not serve as a prerequisite for CHEM 108.

Credits: 3

CHEM 106 - Introductory Chemistry II

This is the second course in a two-semester sequence of an introductory chemistry course for non-science majors. The course will build on the principles presented in CHEM 104 which is a prerequisite for this course and will focus on the areas of organic and biochemistry. As with CHEM 104, this course will concentrate on the basic principles of chemistry and illustrate them through selected applications.

Prerequisites & Notes

Grade of C or better on CHEM 104 or CHEM 107

Credits: 3

CHEM 107 - General Chemistry I

Topics include nomenclature, stoichiometry, kinetic-molecular theory, gas laws, electronic structure, periodicity, and chemical bonding. Stoichiometry is emphasized.

Prerequisites & Notes

ACSD 110

Credits: 3

CHEM 108 - General Chemistry II

Topics include intermolecular forces, solutions, colloids, chemical kinetics, thermodynamics, equilibria (acid-base, solubility, and complex ion), electro-chemistry, and the transition elements.

Prerequisites & Notes

A grade of C or higher in CHEM 107

Credits: 3

CHEM 110 - Contemporary Chemistry Laboratory

Laboratory to accompany Chemistry 104 providing basic chemistry and environmentally related experiences. One two-hour laboratory per week.

Prerequisites & Notes

Co-requisite: CHEM 104

Credits: 1

CHEM 111 - General Chemistry I Lab

A laboratory to accompany CHEM 107. Laboratory experiments are designed to develop basic laboratory skills and illustrate concepts.

Prerequisites & Notes

Co-requisite: CHEM 107

Credits: 1

CHEM 112 - General Chemistry II Lab

A laboratory to accompany CHEM 108. Laboratory experiments illustrate the concepts of General Chemistry II.

Prerequisites & Notes

CHEM 111 grade of "C" or better and co-requisite: CHEM 108 grade of "C" or better.

Credits: 1

CHEM 113 - Clinical Chemistry Laboratory

Laboratory to accompany CHEM 103 providing basic chemistry and health-related experiences. One two-hour laboratory per week.

Prerequisites & Notes

Co-requisite: CHEM 104

Credits: 1

CHEM 139 - University Seminar

University Seminar serves as the entry point to the Slippery Rock University general education program. With its small seminar setting and strong faculty-student interaction, the course promotes intellectual inquiry, critical and creative thinking, and academic excellence. Through varied content, the course introduces students to academic discourse and information literacy while exploring topics such as diversity and inclusion and global awareness. This course will set students along the path to becoming engaged with issues and scholarship important to a 21st century education while they learn about themselves and their place in the world.

Credits: 3

CHEM 190 - Experimental

A unique and specifically focused course within the general purview of a department which intends to offer it on a "one time only" basis and not as a permanent part of the department's curriculum.

Credits: 3

CHEM 195 - Workshop

A workshop is a program which is usually of short duration, narrow in scope, often non-traditional in content and format, and on a timely topic.

Credits: 3

CHEM 198 - Selected Topic

A **Selected Topics** course is a normal, departmental offering which is directly related to the discipline, but because of its specialized nature, may not be able to be offered on a yearly basis by the department.

Credits: 3

CHEM 200 - Fundamentals of Organic Chemistry

A one semester introductory course that covers the most commonly encountered properties of the major families of organic compounds. The course is designed for students pursuing a B.S. in environmental science. Not equivalent to CHEM 201.

Prerequisites & Notes

Grade of C or better on CHEM 108 and CHEM 112

Credits: 3

CHEM 201 - Organic Chemistry I

Modern theories relating molecular structure to chemical reactivity are stressed. Elucidation of molecular structure by infrared, ultraviolet, nuclear magnetic resonance and mass spectroscopy is also covered.

Prerequisites & Notes

A grade of C or higher in CHEM 108 and CHEM112.

Credits: 3

CHEM 202 - Organic Chemistry II

Modern theories relating molecular structure to chemical reactivity are stressed. Elucidation of molecular structure by infrared, ultraviolet, nuclear magnetic resonance and mass spectroscopy is also covered.

Prerequisites & Notes

A grade of C or higher in CHEM 201

Credits: 3

CHEM 211 - Organic Chemistry Laboratory I

A laboratory course in which students employ the synthetic techniques and analytical procedures of organic chemistry.

Prerequisites & Notes

Grade of C or better on CHEM 108 and 112, and co-requisite: concurrent registration in CHEM 201 or completion of CHEM 201 with a grade of C or better

Credits: 1

CHEM 212 - Organic Chemistry Laboratory II

A laboratory course in which students employ the synthetic techniques and analytical procedures of organic chemistry.

Prerequisites & Notes

CHEM 211 grade of "C" or better and concurrent registration in CHEM 202 or completion of CHEM 202 with grade of "C" or better

Credits: 1

CHEM 240 - Industrial Hygiene

Requirements to preserve worker health and safety will be surveyed.

Prerequisites & Notes

CHEM 107 and CHEM 108 and (CHEM 200 or CHEM 201)

Credits: 3

CHEM 243 - Introduction to Research in Chemistry

This is a one semester seminar covering faculty research within the chemistry department, use of library resources, internship opportunities available to undergraduate students, and basic safety training. This course is intended primarily for first-semester sophomore chemistry majors but is open to students from other majors in CHES who might be interested in pursuing undergraduate research in chemistry.

Prerequisites & Notes

Class level: SO & JR

College: CHES

Credits: 1

CHEM 270 - Industrial Chemistry

A study of industries with emphasis on economic, technical, and possible ecological factors affecting process design. Includes on-site lectures and discussions of various industries in the area.

Prerequisites & Notes

CHEM 108, 112

Credits: 3

CHEM 290 - Experimental

A unique and specifically focused course within the general purview of a department which intends to offer it on a "one time only" basis and not as a permanent part of the department's curriculum.

Credits: 3

CHEM 295 - Workshop

A workshop is a program which is usually of short duration, narrow in scope, often non-traditional in content and format, and on a timely topic.

Credits: 3

CHEM 298 - Selected Topic

A **Selected Topics** course is a normal, departmental offering which is directly related to the discipline, but because of its specialized nature, may not be able to be offered on a yearly basis by the department.

Credits: 3

CHEM 301 - Physical Chemistry 1

Thermodynamics and chemical kinetics. Cross listed as PHYS301.

Prerequisites & Notes

Grade of C or better on: CHEM 108, 112, PHYS 212 or 213 and MATH 230

Credits: 3

CHEM 302 - Physical Chemistry II

Quantum mechanics and spectroscopy.

Prerequisites & Notes

Grade of C or better on: CHEM 108, 112, PHYS 211, 212 or 213 and MATH 230

Credits: 3

CHEM 321 - Physical Chemistry Laboratory I

Principles from Thermodynamic principles will be employed in the laboratory for determining and relating physical properties such as viscosity, surface tension, boiling and freezing points to the identity, and composition of chemical substances.

Prerequisites & Notes

Co-requisite: CHEM/PHYS 301

Credits: 1

CHEM 322 - Physical Chemistry Laboratory II

Applied principles from Physical Chemistry II lecture will be used for interpreting results from experiments involving kinetics, equilibria, and spectrophotometric data.

Prerequisites & Notes

Concurrent registration: CHEM 302

Credits: 1

CHEM 335 - Biochemistry I

Investigates the basic theme of intermediary metabolism. A background for this study is gained through study of the chemistry of cellular constituents.

Prerequisites & Notes

Grade of C or better on CHEM 202

Credits: 3

CHEM 336 - Biochemistry Laboratory I

A laboratory course in which the student uses techniques employed in biochemical investigations.

Prerequisites & Notes

Grade of C or better on CHEM 212 and co-requisite: CHEM 335 grade of C or better

Credits: 1

CHEM 337 - Biochemistry II

The study of structures and physical properties of biological molecules.

Prerequisites & Notes

Grade of C or better on: CHEM335 and 336

Credits: 3

CHEM 338 - Biochemistry Laboratory II

This is a one-credit course in biochemical techniques used in the investigation, isolation and purification of biomolecules. The student will get an exposure to and an appreciation for problem solving utilizing a research-oriented approach.

Prerequisites & Notes

Grade of C or better on CHEM 336 and co-requisite: CHEM 337 grade of C or better

Credits: 1

CHEM 340 - Air Quality Assessment/Lab

A study of the quality of the air environment. Air quality assessment and potential problems will be examined both in lecture discussions and in laboratory or field situations. (Includes ambient air testing.) Three hours of lecture and three hours of laboratory per week.

Prerequisites & Notes

Prerequisites: Grade of C or better on: CHEM 200, 201

Credits: 4

CHEM 350 - Analytical Chemistry

Topics include gravimetric and volumetric analysis of chemical systems. Special emphasis is given to titrimetric methods based on acid-base, complexation, and oxidation-reduction reactions.

Prerequisites & Notes

Grade of C or better on: CHEM 108, 112

Credits: 3

CHEM 351 - Analytical Chemistry Lab

Students develop practical skills employed in the quantitative analysis of chemical systems.

Prerequisites & Notes

Grade of C or better on: CHEM 108, 112 and co-requisite: CHEM 350 grade of C or better

Credits: 1

CHEM 370 - Water Quality Assessment/Lab

Water quality assessment and water quality problems will be examined both in lecture discussions and in laboratory or field situations. Three hours of lecture and three hours of laboratory per week.

Prerequisites & Notes

Prerequisites: Grade of C or better on: CHEM 200, 201

Credits: 4

CHEM 390 - Experimental

A unique and specifically focused course within the general purview of a department which intends to offer it on a "one time only" basis and not as a permanent part of the department's curriculum.

Credits: 3

CHEM 395 - Workshop

A workshop is a program which is usually of short duration, narrow in scope, often non-traditional in content and format, and on a timely topic.

Credits: 3

CHEM 398 - Selected Topic

A **Selected Topics** course is a normal, departmental offering which is directly related to the discipline, but because of its specialized nature, may not be able to be offered on a yearly basis by the department.

Credits: 3

CHEM 415 - Forensic Analysis

The application of analytical chemistry including instrumental methods to the investigation and interpretation of crime scene evidence.

Prerequisites & Notes

Grade of C or better on: CHEM 350, 351

Credits: 3

CHEM 416 - Forensic Analysis Lab

The application of instrumental methods of analysis to the interpretation of crime scene evidence.

Prerequisites & Notes

Grade of C or better on: CHEM 350, 351 and co-requisite: CHEM 415 grade of C or better

Credits: 1

CHEM 425 - Instrumental Analysis

A lecture course to introduce the student to the theory, advantages, disadvantages, limitations, and power of contemporary chemical instrumentation, including computational methods.

Prerequisites & Notes

Grade of C or better on: CHEM 350, MATH 225 and PHYS 211

Credits: 3

CHEM 426 - Instrumental Analysis Laboratory

A three hour per week laboratory accompanying CHEM 425. Instrumentation and computing technology will be applied to quantitative problems of chemistry.

Prerequisites & Notes

Concurrent registration in CHEM 425 and knowledge of a computer language

Credits: 1

CHEM 430 - Industrial Pollution Control Engineering

Economic and technical problems will be discussed as related to the abatement of harmful discharges from industrial sources. Systems analysis will be employed in the examination of engineering solutions in the physical or chemical treatment of discharge. Three hours of lecture per week or a field trip.

Prerequisites & Notes

CHEM 108 and 112

Credits: 3

CHEM 442 - Inorganic Chemistry

A lecture course covering atomic structure, bonding, and properties of inorganic compounds. Coordination chemistry and other topics of current research interest are covered. Offered in alternate years.

Prerequisites & Notes

Grade of C or better on CHEM 202

Credits: 3

CHEM 450 - Chemistry Internship

Supervised placement and research in selected public and private agencies. (Credits earned will be counted as free electives and will not be counted toward the chemistry major.)

Prerequisites & Notes

16 credits (minimum) in chemistry and Junior or Senior standing

Credits: 1 to 12

CHEM 452 - Physical Inorganic Chemistry Laboratory

A laboratory course illustrating techniques of synthesis and characterization of inorganic compounds using a variety of spectroscopic and magnetic measurements, and using computational chemistry methods to investigate the electronic structure of compounds.

Prerequisites & Notes

Grade of C or better on CHEM 212

Co-requisite: CHEM 442 grade of C or better

Credits: 1

CHEM 460 - Materials Chemistry

A one semester introductory course that covers the synthesis, analysis, and properties of polymers and solid state materials. Applications to industrial and practical application will be discussed.

Prerequisites & Notes

Grade of C or better on CHEM 202 or permission of the instructor

Credits: 3

CHEM 475 - Advanced Organic Synthesis/Lab

A one semester course that includes an advanced organic chemistry synthesis laboratory. The lecture part covers modern synthetically useful reactions and their applications. The intensive laboratory offers the students an introduction to organic synthesis research, including the use of modern reagents and instruments. Students will become acquainted with techniques of preparation, purification and spectroscopic identifications of organic compounds.

Prerequisites & Notes

Grade of C or better on: CHEM 202 and 212

Credits: 4

CHEM 490 - Independent Study

Independent study courses offer a student the opportunity to carry out original, chemical research in a Chemistry Department, employing all facilities available through the department. Students must properly write and submit an ACS-style report to their faculty advisor or department chair for evaluation.

Prerequisites & Notes

Permission of the chairperson

Credits: 1 to 3

CHEM 491 - Chemistry Seminar

For junior chemistry majors. On-line searches of the chemical literature lead to oral presentations and written reports in a selected area of research.

Credits: 1

CHEM 496 - Research

Offers a student the opportunity to carry out chemical research in the laboratory, employing all departmental facilities, and the experience of writing a thesis under the direction of a faculty mentor.

Prerequisites & Notes

Permission of the chairperson

Credits: 1 to 3

CHEM 498 - Selected Topics

The in-depth examination of a specific topic. The nature of the topic selected and its treatment determined in consultation with the instructor.

A **Selected Topics** course is a normal, departmental offering which is directly related to the discipline, but because of its specialized nature, may not be able to be offered on a yearly basis by the department.

Credits: 1 to 3

CHEM 590 - Experimental

A unique and specifically focused course within the general purview of a department which intends to offer it on a "one time only" basis and not as a permanent part of the department's curriculum.

Credits: 3

CHEM 595 - Workshop

Varies.

Credits: 3

CHEM 598 - Selected Topic

Varies.

Credits: 3

CHIN 101 - Chinese Language and Culture I

This course is the first in a three course series which will provide an introduction to the Mandarin language.

Credits: 3

CHIN 102 - Chinese Language and Culture II

This course is the second in a three course series which will provide an introduction to the Mandarin language.

Prerequisites & Notes

CHIN 101 or equivalent

Credits: 3

CHIN 103 - Chinese Language and Culture III

This course is the third in a three course series which will provide an introduction to the Mandarin language.

Prerequisites & Notes

CHIN 102 or equivalent

Credits: 3

CHIN 139 - University Seminar

University Seminar serves as the entry point to the Slippery Rock University general education program. With its small seminar setting and strong faculty-student interaction, the course promotes intellectual inquiry, critical and creative thinking, and academic excellence. Through varied content, the course introduces students to academic discourse and information literacy while exploring topics such as diversity and inclusion and global awareness. This course will set students along the path to becoming engaged with issues and scholarship important to a 21st century education while they learn about themselves and their place in the world.

Credits: 3

CHIN 190 - Experimental

A unique and specifically focused course within the general purview of a department which intends to offer it on a "one time only" basis and not as a permanent part of the department's curriculum.

Credits: 3

CHIN 195 - Workshop

A workshop is a program which is usually of short duration, narrow in scope, often non-traditional in content and format, and on a timely topic.

Credits: 3

CHIN 198 - Selected Topic

A **Selected Topics** course is a normal, departmental offering which is directly related to the discipline, but because of its specialized nature, may not be able to be offered on a yearly basis by the department.

Credits: 3

CHIN 202 - Intermediate Chinese I

Comprehensive review of the Mandarin language with emphasis on developing the students' abilities for proficient oral and written accomplishments.

Prerequisites & Notes

CHIN 103 or equivalent

Credits: 3

CHIN 290 - Experimental

A unique and specifically focused course within the general purview of a department which intends to offer it on a "one time only" basis and not as a permanent part of the department's curriculum.

Credits: 3

CHIN 295 - Workshop

A workshop is a program which is usually of short duration, narrow in scope, often non-traditional in content and format, and on a timely topic.

Credits: 3

CHIN 298 - Selected Topic

A **Selected Topics** course is a normal, departmental offering which is directly related to the discipline, but because of its specialized nature, may not be able to be offered on a yearly basis by the department.

Credits: 3

CHIN 306 - Survey of Chinese Civilization and Culture

A study of the important aspects of China's culture, including its geography, history, social and political values, arts, sciences, literature, religion, and ideology. Course is taught in English and open to all interested persons.

Credits: 3

CHIN 390 - Experimental

A unique and specifically focused course within the general purview of a department which intends to offer it on a "one time only" basis and not as a permanent part of the department's curriculum.

Credits: 3

CHIN 395 - Workshop

A workshop is a program which is usually of short duration, narrow in scope, often non-traditional in content and format, and on a timely topic.

Credits: 3

CHIN 398 - Selected Topic

A **Selected Topics** course is a normal, departmental offering which is directly related to the discipline, but because of its specialized nature, may not be able to be offered on a yearly basis by the department.

Credits: 3

CHIN 490 - Independent Study

Students have an opportunity to study selected areas in greater concentration. The nature of the topic selected and its treatment are determined in consultation with the instructor.

Independent Study courses give students the opportunity to pursue research and/or studies that are not part of the university's traditional course offerings. Students work one on one or in small groups with faculty guidance and are typically required to submit a final paper or project as determined by the supervising professor.

Prerequisites & Notes

Permission of the instructor, departmental chairperson, and the dean of the college where the study will be conducted.

Credits: 1 to 3

CHIN 495 - Workshop

A workshop is a program which is usually of short duration, narrow in scope, often non-traditional in content and format, and on a timely topic.

Credits: 3

CHIN 498 - Selected Topic

A **Selected Topics** course is a normal, departmental offering which is directly related to the discipline, but because of its specialized nature, may not be able to be offered on a yearly basis by the department.

Credits: 3

CIVL 139 - University Seminar

University Seminar serves as the entry point to the Slippery Rock University general education program. With its small seminar setting and strong faculty-student interaction, the course promotes intellectual inquiry, critical and creative thinking, and academic excellence. Through varied content, the course introduces students to academic discourse and information literacy while exploring topics such as diversity and inclusion and global awareness. This course will set students along the path to becoming engaged with issues and scholarship important to a 21st century education while they learn about themselves and their place in the world.

Credits: 3

CIVL 210 - Elementary Survey

Introductory course in surveying methods and theory. Topics will include surveying, and route surveying.

Prerequisites & Notes

Prerequisite: MATH 225

Credits: 3

CIVL 310 - Structural Engineering

Introduction to the elastic behavior of structural components. Analysis of statically determinate systems. Deflection calculations by virtual work and elastic load methods. Analysis of simple statically indeterminate structures. Influence lines. Interaction of structural components. Typical structural engineering loads.

Prerequisites & Notes

Prerequisite: ENGR 230

Credits: 4

CIVL 320 - Transportation Engineering

Introduction to basic concepts in transportation engineering including: planning, design, and operations. Introduces the challenges and issues in modeling transportation problems. Studies of various concepts related to the design of highway facilities, level of service, and demand for transportation services. Concepts related to signal optimization, policy implications and the basics of transportation planning.

Prerequisites & Notes

Prerequisite: MATH 230

Credits: 3

CIVL 330 - Environmental Engineering

A course in environmental engineering fundamentals that applies biological, chemical, and mathematical principles to solve environmental engineering problems using the mass balance approach.

Prerequisites & Notes

Prerequisites: MATH 230, BIOL 101, CHEM 107

Credits: 4

CIVL 340 - Geotechnical Engineering

Soil properties, identification and classification of earth material; subsurface exploration; soil strength, stresses, settlement, substructure design; computer applications.

Prerequisites & Notes

Prerequisite: ENGR 230

Credits: 3

CIVL 350 - Water Resources Engineering

This course is designed to review the fundamentals and practices of water resources engineering with a focus on engineering applications of hydraulics and hydrology. The concepts of fluid mechanics (hydrostatics, conservation laws) will be applied to analyze flow phenomena in demonstrations and field trips.

Prerequisites & Notes

Prerequisite: ENGR 301

Credits: 3

CIVL 410 - Structural Steel Design

This course covers the analysis and design of structural steel members for tensile, compressive, flexural and combined loading.

Prerequisites & Notes

Prerequisite: CIVL 310

Credits: 3

CIVL 411 - Reinforced Concrete Design

This course covers strength design concepts, beams, columns, slabs, retaining walls, single and combined footings with computer applications.

Prerequisites & Notes

Prerequisite: CIVL 310

Credits: 3

CIVL 412 - Finite Element Analysis

Modern analysis techniques used to investigate a variety of systems in engineering and science. Computational models of problems are developed using energy concepts, structural mechanics, and matrix operations. The methods used are implemented using a general finite element program and the accuracy of the results is evaluated. The learned theoretical approach is applied to common structural elements such as trusses, beams, frames, and plates.

Prerequisites & Notes

Prerequisite: CIVL 310

Credits: 3

CIVL 420 - Traffic Engineering

This course covers the fundamentals of traffic engineering and traffic flow theory: traffic signal design, intersection design, and traffic impact studies. Students will be taught using Highway Capacity Software, SYNCHRO, and other traffic software packages.

Prerequisites & Notes

Prerequisite: CIVL 320

Credits: 3

CIVL 421 - Highway Engineering

Principles of geometric design of highways, intersections, interchanges, and terminals. Practical issues of vertical and horizontal curvature, highway evaluation, driver and vehicle dynamics, and traffic safety are also addressed. Computer-aided design and modeling.

Prerequisites & Notes

Prerequisite: CIVL 320

Credits: 3

CIVL 422 - Transportation Terminal Design

The course covers the transportation design of airports, rail stations and truck terminals to facilitate the transport of passengers and freight in the transportation systems. Terminals are designed to provide security, storage, and access to different modes of transportation.

Prerequisites & Notes

Prerequisite: CIVL 320

Credits: 3

CIVL 430 - Storm Water Management

Quality and quantity of urban storm water. Receiving water problems and sources of pollutants. Runoff quality and quantity characteristics. Selection and design of controls; regulations.

Prerequisites & Notes

Prerequisite: CIVL 350

Credits: 3

CIVL 431 - Environmental Engineering Design

Process design of treatment/remediation systems to solve specific environmental problems, including evaluation alternatives and computer simulation.

Prerequisites & Notes

Prerequisite: CIVL 330

Credits: 3

CIVL 432 - Groundwater Hydrology

The course covers the fundamental science and engineering behind groundwater systems, including but not limited to: the hydrologic cycle, groundwater flow, and wellhead protection and management.

Prerequisites & Notes

Prerequisite: CIVL 350

Credits: 3

CIVL 440 - Construction Management

Provides students with an overview of the responsibilities and risk associated with management within the construction industry. Emphasis is given to responsibilities and relationships between owners, contractors, labor and suppliers, construction estimates and schedules, construction contracts and safety.

Prerequisites & Notes

Prerequisite: CIVL 340

Credits: 3

CIVL 441 - Sustainable Development

Provides an overview of sustainable development with emphasis on the role of the engineer. Study the role of LEED and other sustainable development programs in changing development design.

Prerequisites & Notes

Prerequisite: CIVL 330

Credits: 3

CIVL 460 - Capstone Design I

This course will provide students with the opportunity to work as part of a multi-disciplinary Civil Engineering design team. The course will consist of developing the preliminary design plans with presentations and reports. Students will learn about the regulatory process, LEED design, and site planning. Lectures in professional practice and teaming will augment the design project.

Prerequisites & Notes

Class level: Senior

Credits: 3

CIVL 461 - Capstone Design II

This course will provide students with the opportunity to work as part of a multi-disciplinary Civil Engineering design team. The course will consist of a design project with presentations and reports. Lectures in professional practice and teaming will augment the design project.

Prerequisites & Notes

Prerequisite: CIVL 460

Credits: 3

COMM 110 - Communication Concepts

An overview of basic theories concerning the communication process. Recommended as a basis for major study in the area.

Credits: 3

COMM 115 - Visual Literacy

A cornerstone course that involves the study of visual forms of communication with an emphasis on image-based media (newspaper, magazine, film, television, photography, informational graphics, interactive multimedia, digital games and web-based technologies). Topics include visual interpretation, visual manipulation, visual conventions, the role of visual media and cultural processes and aesthetic appreciation.

Credits: 3

COMM 120 - Introduction to Digital Photography

For Communication majors only. This course provides an introduction to the basic concepts of digital photography. Technical and compositional elements for the creation of quality digital photography are covered. Focus on this course is on the commercial application of photography for media production.

Credits: 3

COMM 139 - University Seminar

University Seminar serves as the entry point to the Slippery Rock University general education program. With its small seminar setting and strong faculty-student interaction, the course promotes intellectual inquiry, critical and creative thinking, and academic excellence. Through varied content, the course introduces students to academic discourse and information literacy while exploring topics such as diversity and inclusion and global awareness. This course will set students along the path to becoming engaged with issues and scholarship important to a 21st century education while they learn about themselves and their place in the world.

Credits: 3

COMM 190 - Experimental

A unique and specifically focused course within the general purview of a department which intends to offer it on a "one time only "basis and not as a permanent part of the department's curriculum.

Credits: 1 to 3

COMM 195 - Workshop

A workshop is a program which is usually of short duration, narrow in scope, often non-traditional in content and format, and on a timely topic.

Credits: 1 to 3

COMM 198 - Selected Topic

A **Selected Topics** course is a normal, departmental offering which is directly related to the discipline, but because of its specialized nature, may not be able to be offered on a yearly basis by the department.

Credits: 1 to 3

COMM 200 - Civil Discourse

Theory and practice of promoting shared understanding and the common good through civil discourse as related to the development and presentation of oral messages. Students will be expected to develop an understanding of the principles and practices of public speechmaking that constitute civil discourse, how the First Amendment enables it, its history and role in problem-solving, and the influence of mediated discourse on democracy.

Credits: 3

COMM 201 - Digital Imaging 1

This course exposes students to the use and manipulation of electronically generated images through hands-on experience with digital cameras and scanners. Market specific imaging software is used to further enhance and manipulate imagery. Course topics include visual aesthetics, composition, image layering, photo-retouching, spatial relationships, compression techniques, digital painting, editing, color adjustment, filtering, image capture and file formatting.

Prerequisites & Notes

Must be enrolled in one of the following Fields of Study (Major, Minor, or Concentration): Communication

Credits: 3

COMM 204 - Environmental Communication

In this course, students will learn about the theoretical and applied concepts that guide the discipline of environmental communication including rhetoric & discourse, media, public participation, social marketing, collaboration & conflict resolution, risk communication, and popculture. Students will demonstrate understanding and show application of

materials for successful environmental communication in a variety of protected areas and conservation settings.

Prerequisites & Notes

None.

Credits: 3

COMM 215 - Small Group Communication

Communication problems and processes in small groups. Topics include role and nature of the small group, communication structure, problem-solving techniques, and leadership.

Credits: 3

COMM 217 - Intercultural Communication

This course is designed to create a greater understanding of communication patterns and breakdowns which occur as members of one culture group interact with those of another culture group. This course will also foster an increased awareness of particular skills and knowledge that can foster more effective intercultural communication.

Credits: 3

COMM 228 - Principles of Creative Advertising

This course introduces students to the history, role and context of advertising and how advertising messages solve communication problems by informing, changing attitudes and motivating behavioral changes among an organization's target audiences. Students will learn fundamentals about the advertising development and execution process, including theory and strategy, copy writing, design and selection of media.

Credits: 3

COMM 231 - Introduction to Public Relations and IMC

This course seeks to introduce public relations students to the history, role, context of public relations, and the process through which public relations professionals establish and maintain lines of communication between an organization and its publics. As such, the course examines the nature of public opinion, methods of audience analysis, message design, and engages in skill development relevant to the professional practice of the public relations.

Prerequisites & Notes

New course title for Fall 2015. Former title was "Introduction to Public Relations."

Credits: 3

COMM 232 - Publication Production

This course will be concerned with the nonverbal aspects of print communication, i.e., areas by which the communication process can be enhanced by the use of pictures, charts, graphs, white space, type faces and sizes, etc. It seeks to make students aware of the fact that print communication does not involve only words.

Credits: 3

COMM 235 - Introduction to Digital Design

Exposes students to the manipulation of digital images and their use in digital publication through hands on experience with market-specific software. Course topics include visual aesthetics, composition, spatial relationships, type-faces, and file formatting.

Credits: 3

COMM 242 - Journalistic Writing

Basic course in journalistic news structuring techniques and straight news writing for print, broadcast and online news formats. Students practice and write in-class news stories utilizing basic news organization, professional journalistic writing styles, and quotation modes appropriate to different news platforms.

Prerequisites & Notes

ENGL 102

Credits: 3

COMM 247 - Photojournalism

Photojournalism upholds the professional standards specific to newspaper photography and the recording of news events visually. Students will be introduced to basic photography skills and required to shoot assignments according to print standards on deadline. The course includes issues related to the specialization of shooting sports, spot news, features and special essays. Technical aspects of digital photography and printing for publication are also reviewed.

Credits: 3

COMM 248 - Interactive Multimedia 1

An introduction to the production of written and media based content for a variety of web-based applications. Course topics include the use of content management systems, the basics of web design and blog creation, writing for the web, making media for the web, connecting to social media and web analytics.

Credits: 3

COMM 254 - Video Production

An introduction to video production as communication media. Emphasis on the processes and technologies of single-camera production, including: (1) operation of audio and video recording equipment, (2) development of techniques for composition, lighting, scriptwriting, storyboarding, directing, and editing.

Credits: 3

COMM 256 - Message Preparation

An introduction to message preparation for a variety of media and communication functions, including radio, television, video, podcasts, instructional media, social media, websites, and advertising.

Credits: 3

COMM 258 - Interactive Multimedia 2

An introduction to the aesthetic and technical production of basic multimedia content for a variety of applications and disciplines. Course topics include basic aesthetics of multimedia, and introduction to media coding and industry specific applications, and development of graphic, animated, and interactive media assets.

Prerequisites & Notes

Prerequisites: COMM 235 or COMM 201

Credits: 3

COMM 263 - Mass Media and Society

An introduction to the mass media that includes an examination of the historical development, current structure, and functions of the traditional and emerging media. The course will also explore the economic, legal, and ethical issues facing the media and introduce the interaction of the media and society, culture, and the individual.

Prerequisites & Notes

COURSE NUMBER CHANGE IN SUMMER 2015. OLD NUMBER WAS COMM 362.

Credits: 3

COMM 290 - Experimental

A unique and specifically focused course within the general purview of a department which intends to offer it on a "one time only" basis and not as a permanent part of the department's curriculum.

Credits: 1 to 3

COMM 295 - Workshop

A workshop is a program which is usually of short duration, narrow in scope, often non-traditional in content and format, and on a timely topic.

Credits: 1 to 3

COMM 298 - Selected Topic

A **Selected Topics** course is a normal, departmental offering which is directly related to the discipline, but because of its specialized nature, may not be able to be offered on a yearly basis by the department.

Credits: 1 to 3

COMM 303 - Communication and Media Ethics

This course will address the application of ethical standards, guidelines, and policies to situations related to media and to communication. This course is based on two fundamental premises: (1) we create the sort of person that we are

through our actions and inactions, and (2) an ethical communicator is one who acts with integrity. This course will cover what constitutes communication ethics from various historical points of view, how recent ethical conflicts have arisen in media production and communication, and how to apply ethical judgments to issues and controversies.

Prerequisites & Notes

Prerequisites: None

Credits: 3

COMM 305 - Broadcast Journalism

An examination of topics critical to practice of broadcast journalism, including researching, news-gathering techniques, writing, and production skills. The course will also introduce the components of the broadcasting system in America including economics, programming, regulations, and broadcast technologies.

Prerequisites & Notes

COMM 242 minimum grade D, COMM 110 minimum grade C.

Credits: 3

COMM 307 - Social Media

This course will provide students with a professional approach to using social media tools in their field, examining both the technological and theoretical perspectives of social media through the hands-on application of the technologies.

Prerequisites & Notes

COMM 110 minimum grade C. Must be enrolled in one of the following Fields of Study (Major, Minor, or Concentration): Communication and Junior or Senior level standing.

Credits: 3

COMM 310 - Communication Research Methods

An introduction to the principles, procedures, and tools of research used in the analysis of the communication situation, including consideration of research design and statistical analysis and the identification, control, and measurement of communication variables. This course is a prerequisite or co-requisite for all upper division communication courses for majors.

Prerequisites & Notes

COMM 110

Credits: 3

COMM 312 - Argumentation

A study of argumentation as a decision making process. Course focuses on theories of argument, the roles of advocates and opponents, the nature of argument building, evidence, and reasoning and argument in various contexts.

Prerequisites & Notes

COMM 200 minimum grade D, COMM 110 minimum grade C.

Credits: 3

COMM 314 - Interpersonal Communication

This is a theory-based course examining the process of communication in dyadic and group settings. Emphasis is placed upon (1) influences upon communication processes and resulting behavior and content and (2) the development of skills and skill assessment in both settings.

Credits: 3

COMM 315 - Organizational Communication

A study of the communication behavior of persons in organizations. Considers the nature of organizations, communication structures in organizations, and the development of communication training in organizations.

Credits: 3

COMM 318 - Professional Presentation

Principles and applications of communication techniques and media for presentations and processes common to professional settings.

Prerequisites & Notes

None

Credits: 3

COMM 332 - Case Studies in Public Relations and Integrated Communications

This advanced course seeks to develop critical thinking skills through the examination of audience-centered case studies. Students examine how professionals in public relations and integrated communications develop objectives that translate into communication campaigns, illustrating theoretical applications in real-life situations. The development of analytical skills, ethical guidelines, and issues of diversity in communications practice are emphasized.

Prerequisites & Notes

COMM 231 minimum grade D, COMM 110 minimum grade C.

Credits: 3

COMM 333 - Public Relations Writing

Course seeks to further develop the writing skills of public relations majors. Course assignments focus on expanding students' ability to make critical decisions regarding the process of gathering necessary information, identifying objectives, and creating appropriate messages for specific target audiences.

Prerequisites & Notes

COMM 231 and 242, minimum grade D, and COMM 110 minimum grade C.

Credits: 3

COMM 334 - Publication Production

The course continues to expose students to the in-depth study of electronic publication issues, it specifically deals with design and layout issues related to newspapers, annual reports and other multiple-page publications. The course covers issues related to prepares, separations, advanced topography and paper selection.

Prerequisites & Notes

Prerequisites: COMM 235 or COMM 232 minimum grade D, and COMM 110 minimum grade C.

Credits: 3

COMM 335 - Digital Animation

An exploration of the aesthetic and technical production of animated and interactive assets for a variety of media applications. Course topics include development of raster and vector graphic elements and design and production of both simple and interactive animation for a variety of applications and disciplines.

Prerequisites & Notes

Prerequisites: COMM 235 or COMM 201 minimum grade D, and COMM 110 minimum grade C.

Credits: 3

COMM 342 - Sports Journalism

Discussion of ethics and responsible sports journalism, sports information and public relations interview techniques, broadcast sports journalism. Guest lecturers in sports information, public relations, and broadcast journalism may speak on relevant topics.

Prerequisites & Notes

COMM 242 minimum grade D, and COMM 110 minimum grade C.

Credits: 3

COMM 343 - Feature Journalism

Course will focus on writing feature articles for newspapers and magazines.

Prerequisites & Notes

COMM 242 minimum grade D, and COMM 110 minimum grade C.

Credits: 3

COMM 347 - New-Media Journalism

An examination of new-media forms and the effects of new digital media on media industries and the practice of journalism. The course will examine the differences between traditional and new media journalism in theory and in practice and explore online writing techniques and the impact of social networking sites on the practice of journalism.

Prerequisites & Notes

COMM 242 OR COMM 248

Credits: 3

COMM 348 - Advanced Journalistic Writing and Reporting

Instruction in writing and reporting techniques beyond the basic news story, focused on detailed, in-depth news-writing and news-gathering practices, including use of human and documentary sources, toward production of public affairs stories; discussions of contemporary journalistic ethics and values.

Prerequisites & Notes

Prerequisites: COMM 242 minimum grade D, and COMM 110 minimum grade C.

Credits: 3

COMM 350 - Editing for Video

This course provides students with the opportunity to expand their knowledge of videotape editing. Special attention is given to expanding skill sets associated with digital non-linear editing.

Prerequisites & Notes

COMM 254

Credits: 3

COMM 354 - TV Studio Production

The course covers the process and technique of multi-camera video production. Students gain experience in studio and control room operation and production roles. The course trains students to integrate video packages produced in the field for presentation in a multi-camera studio broadcast.

Prerequisites & Notes

COMM 110 minimum grade C.

Credits: 3

COMM 355 - TV Field Production

An advanced course in the processes and techniques of single-camera field production and editing. Students will report, video tape, write, and edit packages for television news.

Credits: 3

COMM 359 - Interactive Multimedia 3

This course provides students the ability to move beyond the traditional models of information distribution using image, sound, motion and text. The course introduces the fundamentals of communicating through digital interfaces with an audience. Topics include digital imaging, creating effective interactive projects, models of information structure, analysis of design problems and distribution models. Theories of communication, learning, human-centered design and project evaluation are discussed.

Prerequisites & Notes

COMM 258

Credits: 3

COMM 360 - Corporate Media

The application of adult training theories, communication theories, and production skills in the planning, design, and implementation of media in the corporate and institutional setting, with emphasis on media management and the use of media in training and development.

Prerequisites & Notes

Prerequisite: COMM 235 or COMM 232 minimum grade D, and COMM 110 minimum grade C.

Credits: 3

COMM 363 - Audio Production

An introduction to the aesthetic and technical production of audio for a variety of media and disciplines. Course topics include principles of hearing, sound, acoustics, and psychoacoustics, field and studio recording techniques, tools and applications for single and multi-track production and editing; and the development of vocal techniques associated with on-air announcing for radio, television and online productions.

Prerequisites & Notes

COMM 110 minimum grade C.

Credits: 3

COMM 364 - Brand Management

The main objective of this course is to provide insights on developing effective brand management strategies. This course is designed to offer important concepts, frameworks, theories, practices and skills required to create and manage profitable brands.

Prerequisites & Notes

Prerequisites: COMM 231 or MRKT 330, minimum grade of C.

Credits: 3

COMM 390 - Experimental

A unique and specifically focused course within the general purview of a department which intends to offer it on a "one time only" basis and not as a permanent part of the department's curriculum.

Prerequisites & Notes

COMM 110 minimum grade C.

Credits: 1 to 3

COMM 395 - Workshop

A workshop is a program which is usually of short duration, narrow in scope, often non-traditional in content and format, and on a timely topic.

Credits: 1 to 3

COMM 398 - Selected Topic

A **Selected Topics** course is a normal, departmental offering which is directly related to the discipline, but because of its specialized nature, may not be able to be offered on a yearly basis by the department.

Prerequisites & Notes

COMM 110 minimum grade C.

Credits: 1 to 3

COMM 401 - Digital Imaging 2

This course continues to expose students in the use, manipulation and creation of digital images through hands-on experience with market specific imaging software. Course topics include visual aesthetics, image composition, vector graphics, typography, image scalability and file formatting.

Prerequisites & Notes

Prerequisites: COMM 235 or COMM 201 minimum grade D, and COMM 110 minimum grade C.

Credits: 3

COMM 405 - Global Media

An examination of different regions of the world and their media systems. The course will explore how politics, economics and culture play a role in shaping global media structures. Both historical and contemporary perspectives on the topic are addressed, particularly as they relate to issues of democracy, cultural autonomy, political rights, social justice, media systems of different world regions, global representations in U.S. media, new technologies and developments in global technology and economic media developments.

Credits: 3

COMM 407 - Social Media 2: Analytics and Strategies

This course will examine the concepts of social media networks and the process of collecting, analyzing, measuring, and visualizing data for organization and business. The course will emphasize on understanding the role of theories in social media analytics, and the tools that help collecting, analyzing social media data and preparing reports. As an advanced level course, students will be required to learn and apply data analytics software beside significant writing assignments, formal presentations.

Prerequisites & Notes

Prerequisites: COMM 307, minimum grade of C.

Credits: 3

COMM 410 - Communication Law

Discussion of topics related to the field of mass communication (freedom of the press, libel, invasion of privacy, copyright, obscenity, regulations, ethics, and responsibility of the communicator and the agency).

Prerequisites & Notes

Must be enrolled in one of the following Classifications: Senior 1, Senior 2.

Credits: 3

COMM 413 - Communication Theory

A study of the significant theories of human communication that help to explain and predict the role of communication in determining the social, cultural, and political behavior of the community.

Prerequisites & Notes

Advanced standing. COMM 110 minimum grade C.

Credits: 3

COMM 415 - Persuasion

This course will familiarize students with the processes of persuasion, the relationship of persuasion to other forms of human communication, methods for studying persuasion, the theories of persuasion and ethical concerns about persuasion. The perspectives and tools developed in this course should enable the student to develop effective message strategies in work and personal situations.

Prerequisites & Notes

COMM 110, 200 minimum grade D, and COMM 110 minimum grade C.

Credits: 3

COMM 419 - Propaganda: Ideology, Communication Warfare, and Social Control

The purpose of this course is to enhance the critical thinking and analytical skills of students to make them better able to cope intellectually with public argument in a world of where sound-bites and terrorism rule the day. This course addresses the ways in which various ideologies compete for global dominance by employing advocacy strategies and propaganda techniques, a process made both more complex and more consequential by rapidly advancing communication technologies. By manipulating visual imagery, propagandists often exert control over the public's perception of political, social, and economic reality. Extensive use of art and video examples will be made in this course.

Credits: 3

COMM 422 - History of Journalism

Tracing the history of American journalism from its early English European heritage to modern times. Emphasis on people, organization, and media that have helped establish the press as an American institution.

Prerequisites & Notes

COMM 110, min grade C.

Credits: 3

COMM 431 - PR and IMC Campaigns Capstone

Capstone course in the PR and IMC tracks. Course provides students a thorough experience in conducting public relations and integrated marketing communication campaigns and preparing communication materials. Working in teams, students prepare and conduct the research, planning, implementation and evaluation of an actual campaign for a client.

Prerequisites & Notes

MRKT 430, COMM 332, COMM 333 minimum grade D, and COMM 110 minimum grade C.
SENIOR STANDING.

Credits: 3

COMM 434 - Advertising Production

Advanced production course which applies concepts of design, creative strategy and message development to the creation of advertising in a variety of mediums. Course focuses on development of consumer, public service and public relations advertising campaigns.

Prerequisites & Notes

Prerequisites: COMM 235 or COMM 232 minimum grade D, and COMM 110 minimum grade C.

Credits: 3

COMM 441 - Issues in Journalism

Study of contemporary controversies and problems in journalism.

Prerequisites & Notes

Advanced standing. COMM 110 minimum grade C.

Credits: 3

COMM 449 - Communication Projects

This course provides students an opportunity to investigate in-depth, approved topics in applied communication.

Prerequisites & Notes

Junior standing or permission of the instructor. COMM 110 minimum grade C.

Credits: 3

COMM 450 - Internship

Supervised placement or research in selected private or public agencies.

Prerequisites & Notes

Junior status, 18 credits in the major, 2.500 GPA in major and 2.000 GPA overall. COMM 310 is a prerequisite or co-requisite for all majors.

Credits: 1 to 12

COMM 453 - Media Project Management

This course is intended to develop student mastery of the emerging environment of digital information through a project-based, team-based course. The course focuses on issues of team work, project management, strategy development and communications both inside and outside of the team. Other topics include budgeting, development of human capital, leadership, time management and legal issues.

Prerequisites & Notes

COMM 258 AND; COMM 307 OR 347 AND; COMM 359 OR 401 minimum grade D, and COMM 110 minimum grade C.

Credits: 3

COMM 454 - Live Broadcast Production

This course will teach students visual aesthetic principles and technical skills required to produce live programming and graphics for broadcast. Course topics include objective development, composition, element layering, branding, and advanced multi-camera studio and field production.

Prerequisites & Notes

Prerequisites: (COMM 235 or COMM 201) , COMM 350, and COMM 354 minimum grade D, and COMM 110 minimum grade C.

Credits: 3

COMM 455 - History of Broadcasting

Survey of the history and development of radio and television broadcasting in the United States.

Prerequisites & Notes

COMM 110 minimum grade C.

Credits: 3

COMM 458 - Media Criticism

A critical examination of film, television, and radio. The course focuses on the formation and application of standards for appraising media and their messages.

Prerequisites & Notes

COMM 263 or COMM 362

Credits: 3

COMM 459 - Issues in Communication Technologies

An exploration of current and emerging communication technologies including their development and regulation, as well as the social, individual and ethical impact of these technologies.

Prerequisites & Notes

COMM 110 minimum grade C.

Credits: 3

COMM 464 - Advertising Campaigns Capstone

This course is a capstone course in the Advertising program. Students will demonstrate how the knowledge and skills learned in their program can be applied directly to designing and developing creative advertising campaigns. Students will be responsible for conducting research, strategic planning, writing creative briefs, planning and preparation of advertising copy and design, and campaign evaluation.

Prerequisites & Notes

Prerequisites: COMM 228, COMM 235, COMM 310, and COMM 434

Credits: 3

COMM 480 - The Communication Age

Presentation and discussion of the influences, trends, and issues that permeate the evolution toward a "Communication Age." Major issues and influences are examined, including significant technological developments and solutions that have been applied to communication needs and opportunities. Discussion addresses marketplace forces; humanistic, social, personal, and ethical issues; and the impact on organizations, workplace, home, education, government, and international functions. Major attention is given to the role of the impact on the individual amidst these far-reaching changes.

Prerequisites & Notes

Advanced standing.

Credits: 3

COMM 490 - Independent Study

Independent Study courses give students the opportunity to pursue research and/or studies that are not part of the university's traditional course offerings. Students work one on one or in small groups with faculty guidance and are typically required to submit a final paper or project as determined by the supervising professor.

Prerequisites & Notes

Permission of the instructor, departmental chairperson, and dean of the college where the study will be conducted.
COMM 310.

Credits: 3

COMM 495 - Workshop

A workshop is a program which is usually of short duration, narrow in scope, often non-traditional in content and format, and on a timely topic.

Credits: 1 to 3

COMM 497 - Senior Capstone Seminar

The seminar is designed to assist students develop career awareness and proficiency in career/job search skills relevant to obtaining an entry-level position in a communication-related field, or to obtain entry to graduate study. Students enrolled will participate in career development activities, including portfolio development, job seminars, establishing credential files, participating in mock and actual interviews, on-site mentoring/shadow program and public presentation of their portfolio.

Prerequisites & Notes

SENIOR STANDING

Credits: 3

COMM 498 - Selected Topics

The in-depth examination of a specific topic. The nature of the topic selected and its treatment determined in consultation with the instructor.

A **Selected Topics** course is a normal, departmental offering which is directly related to the discipline, but because of its specialized nature, may not be able to be offered on a yearly basis by the department.

Prerequisites & Notes

COMM 110 minimum grade C.

Credits: 3

CPSC 100 - Introduction to Computing for Liberal Arts

A pass/no credit course to provide an introduction to the computer capabilities needed to succeed in an Information Society. This course is designed to support the SRU Computer Competency requirement. Topics will include computer hardware, software, networking, security and privacy, and societal issues.

Credits: 1

CPSC 102 - Collaborative Information Technology and Society

in globally diverse contexts. The course provides an introduction to the historical development, current use and future directions of collaborative technology in human societies. We will address how to manage and protect personal computing devices and communication, along with the ethical, legal and social issues involved in the use of these collaborative technologies.

Credits: 3

CPSC 110 - Computer Concepts

A computer literacy course stressing the use of application software on personal computers. It covers a survey of computers and their impact on society and the use of word processing software. Other application software is also covered, such as spreadsheets and database software, but the particular applications examined may vary from section to section.

Credits: 3

CPSC 125 - 3D Modeling for Computing

This course introduces students to 3D modeling for applications in computing fields. It covers the basic and intermediate features in 3D modeling software tools, which are utilized in applications such as 3D visualization, 3D animation, virtual reality/augmented reality, and 3D game design. This course also introduces students to the printing of 3D objects.

Prerequisites & Notes

Prerequisites: Computer competency or CPSC 100 or CPSC 110 or CPSC 130 or PE 202

Credits: 3

CPSC 130 - Introduction to Computing and Programming

An introductory course devoted to programming and to a description of hardware and software concepts. Programming concepts covered include top-down program development using pseudocode, algebraic notation, standard control structures, and arrays in an appropriate programming language. Other topics include binary representation, storage, and general architecture and functioning of a computer system.

Keywords: computer science

Prerequisites & Notes

ACSD 110

Credits: 3

CPSC 139 - University Seminar

University Seminar serves as the entry point to the Slippery Rock University general education program. With its small seminar setting and strong faculty-student interaction, the course promotes intellectual inquiry, critical and creative thinking, and academic excellence. Through varied content, the course introduces students to academic discourse and information literacy while exploring topics such as diversity and inclusion and global awareness. This course will set students along the path to becoming engaged with issues and scholarship important to a 21st century education while they learn about themselves and their place in the world.

Credits: 3

CPSC 140 - Introduction to Programming

Techniques are stressed that enable systematic development of clear, correct programs. Other topics include data types, algebraic notation, standard control structures, functions; input/output, arrays, and program testing and debugging. The programming language will be taught in a language designed for non-programmers.

Prerequisites & Notes

ACSD 110

Credits: 3

CPSC 146 - Programming Principles

Techniques are stressed that enable systematic development of clear, correct programs. Other topics include data types, algebraic notation, standard control structures, functions; input/output, arrays, and program testing and debugging. Programs will be written in the department's current official programming language of instruction.

Prerequisites & Notes

ACSD110

Credits: 3

CPSC 190 - Experimental

A unique and specifically focused course within the general purview of a department which intends to offer it on a "one time only "basis and not as a permanent part of the department's curriculum.

Credits: 1 to 3

CPSC 195 - Workshop

A workshop is a program which is usually of short duration, narrow in scope, often non-traditional in content and format, and on a timely topic.

Credits: 1 to 3

CPSC 198 - Selected Topic

A **Selected Topics** course is a normal, departmental offering which is directly related to the discipline, but because of its specialized nature, may not be able to be offered on a yearly basis by the department.

Credits: 1 to 3

CPSC 207 - Shell Commands and Scripting

This course introduces the student to the shell commands and shell programming in prevalent operating systems. The architecture of the PC and how it relates to the OS is discussed conceptually and physically examined. The hardware and software required for data communications are discussed.

Credits: 3

CPSC 210 - Productivity Software

An in-depth, practical study of existing productivity software packages that focuses primarily on decision-support systems for microcomputers. Projects will involve the use of intermediate and advanced features of various software packages, as well as the use of several packages in finding computer-based solutions to information storage and retrieval problems.

Prerequisites & Notes

CPSC099 or 100 or 110 or 130

Credits: 3

CPSC 215 - Cross-Platform Mobile App

This course will cover a practical and comprehensive approach to planning, mapping, building, testing and deploying mobile applications on multiple major mobile device platforms with multiple major operating systems, currently including IOS and Android on phones and tablets. Students use the software development process to build mobile applications that leverage device features and 3rd party application programming interfaces (APIs) to provide stable and robust software. Topics covered include software design patterns, interface design, application architecture, databases, memory management, input methods, data handling, interfacing with device APIs and connectivity.

Prerequisites & Notes

CPSC 130 and CPSC 146

Credits: 3

CPSC 217 - Structured and Dynamic Web Programming

This course is designed to cover the features of popular programming languages specifically for creating web pages. Mouse rollovers, browser detects, pop-up windows that launch when a web page loads or in response to specific actions, and form data-checking are just a few of the most popular uses of web programming languages that will be discussed. Programming will be done in a representative programming language.

Prerequisites & Notes

CPSC 130; CPSC 146

Credits: 3

CPSC 236 - Selected Computer Languages

A selected prevalent computer language(s) other than those taught regularly in other Computer Science courses will be studied and used for programming. Topics will include data structure, control structures, data control, modularization and other features of the language. Special applications, if any, of the language will be studied. The student is expected to have basic programming experience in at least one other language. For different languages, this course may be repeated for credit toward graduation, but not toward Computing major or minor.

Prerequisites & Notes

Prerequisites: CPSC 130 or CPSC 146

Credits: 3

CPSC 246 - Advanced Programming Principles

This course places its emphasis on data and their role in software development. Such a study relies on a two-step approach to data abstraction. In the first step, data must be viewed as abstract objects. These objects are selected and specified so as to be useful in the solution of programming projects. In the second step, the abstract objects are translated into program data structures. An extensive examination of data structures provides the student many opportunities to explore the issues of implementing data abstractions. This course will be taught in C++, and will include an introduction to Unix/Linux.

Prerequisites & Notes

CPSC 146; and
(MGMT/ECON/BUSA 219) or (MATH 125 or MATH 152 or STAT 152 or MATH 225)

Credits: 3

CPSC 290 - Experimental

A unique and specifically focused course within the general purview of a department which intends to offer it on a "one time only" basis and not as a permanent part of the department's curriculum.

Credits: 1 to 3

CPSC 295 - Workshop

A workshop is a program which is usually of short duration, narrow in scope, often non-traditional in content and format, and on a timely topic.

Credits: 1 to 3

CPSC 298 - Selected Topic

A **Selected Topics** course is a normal, departmental offering which is directly related to the discipline, but because of its specialized nature, may not be able to be offered on a yearly basis by the department.

Credits: 1 to 3

CPSC 300 - Challenges of Computer Technology

An in-depth study of the critical issues related to the computerization of society. Ethical, legal, and moral issues raised by the evolution of computer technology will be discussed.

Prerequisites & Notes

Advanced standing

Credits: 3

CPSC 301 - Practical Computer Security

A practical introduction to the threats present to the online, electronic community, and how to protect yourself and your organization from them. We will explore the connectivity structure of the Internet, along with the security and criminal threats to members of the online community. The legal, ethical and technical issues related to threats such as viruses, worms, and identity theft will be covered.

Prerequisites & Notes

CPSC099 or 100 or 110 or 130

Credits: 3

CPSC 305 - Introduction to Expert Systems

An overview of the purpose, structure, and applications of expert systems. Topics covered will include expert systems technology, knowledge engineering, applications of expert systems, expert systems development, and the future of expert systems.

Prerequisites & Notes

CPSC099 or 100 or 110 or 130

Credits: 3

CPSC 311 - Discrete Computational Structures

Introduces computational implementations of the mathematical structures most frequently used in computing including sets, equivalence relations, functions, graphs, trees and standard logic. Also introduces automata, formal languages, countability, decidability and computational complexity, Markov and stochastic processes. The course will stress traditional programming and mathematical approaches to these structures such as the use of recursion, elementary data structure, and proof techniques to instantiate, parse, traverse, demonstrate correctness, or use these computational objects.

Prerequisites & Notes

MATH 125

Credits: 3

CPSC 315 - Computer Gadget Project

This course introduces the students to digital electronics and programming based on popular single-board microcontroller and single-board computer system platforms to interact with their environment with sensors and actuators, which can find application in robotics, home automation, the internet of things, cyber-physical systems and sensor networks. Topics include the architecture of single-board microcontroller and single-board computer system, basic electricity and electronics, system connection and configuration, and programming.

Prerequisites & Notes

CPSC 146 and CPSC 207

Credits: 3

CPSC 317 - Scripting Languages

This course emphasizes programming using scripting languages for the purpose of collecting and manipulating system information by system administrators and managers. Programming concepts such as data types and control structures will be discussed as well as operating system commands. A variety of languages and utilities will be discussed such as the Borne shell, Perl, awk, and the Common Gateway Interface. The student is expected to have programming experience and knowledge of the Unix and Windows environments.

Prerequisites & Notes

CPSC 207, 217

Credits: 3

CPSC 323 - Fundamentals of Database Systems

A practical approach to analysis, design, and implementation of database systems. This course covers topics such as: conceptual, logical and physical data models; relational database and relational algebra; building and mapping entity relationship diagrams (ERDs); normalization; basic and advanced Structured Query Language (SQL) for data retrieval and manipulation; functions, triggers, and procedures; transactions and concurrency control; security, backup, and recovery procedures.

Prerequisites & Notes

Prerequisites: CPSC 130 or CPSC 146

Credits: 3

CPSC 327 - Administration and Security

Students will learn administration techniques for at least two popular computer operating systems, with special attention to system security. Techniques for managing networking, remote printing, storage allocation, account management, and backup will be discussed. Common techniques for breaching system security, and methods of defense against such attacks, will be emphasized.

Prerequisites & Notes

CPSC 207 and (CPSC 246 or CPSC 217)

Credits: 3

CPSC 333 - Introduction to Computer Forensics

This is a fundamental course which covers computer forensics. This class covers methods and tools for gaining forensic information from computer systems and networks. It includes case studies of cyber crimes as well as the application and management of cyber forensics. The course introduces students to forensics tools using hands-on experience and the Internet.

Prerequisites & Notes

CPSC 099; or

CPSC 100; or

CPSC 110; or

CPSC 130; or

CPSC 210; or

MIS 210; or

PE 202

Credits: 3

CPSC 337 - Introduction to Web Graphics

This course will expose the student to the standards for Web and mobile graphics such as SVG, CSS, and the canvas. Topics include color models, coordinate systems, coordinate transformations, and popular image formats. Covered are vector and pixel-based approaches as well as both declarative and scripted models of graphical content creation.

Prerequisites & Notes

CpSc 217, or CpSc 130 and 246.

Credits: 3

CPSC 342 - Introduction to Bioinformatics

It is a practical course that introduces a wide range of bioinformatics tools, algorithms and biological databases. A broad array of topics in Bioinformatics will be covered such as: overview of Bioinformatics, biological databases, sequence alignment, multiple sequence alignment, molecular phylogeny and evolution, gene expression analysis, protein structure and genome mapping.

Prerequisites & Notes

Prerequisites: BIOL 250 and (BIOL 104 or (BIOL 101 and BIOL 100))

Credits: 3

CPSC 358 - Simulation

Models of real-life phenomena are programmed with a current simulation language. These are run and adjusted for accurate prediction and explanation. Other simulation languages are surveyed, and needed statistical background is reviewed.

Prerequisites & Notes

CPSC 146 and
(ECON 219 or MGMT 219 or MATH 152 or MATH 352)

Credits: 3

CPSC 370 - Computer Organization and Architecture

This course will study computer organization topics such as data representation, Boolean logic, memory hierarchy, and data path design. It will study computer architecture topics such as CPU control, pipelining and instruction set

architecture. The course will also introduce the architecture and software models involved in parallel computing. Students will learn the assembly level machine organization by means of a standard assembly language.

Prerequisites & Notes

CPSC 246

Credits: 3

CPSC 374 - Algorithms and Data Structures

This course establishes a foundation for the systematic study of algorithms and data structures. The integration of these two concepts into a single organizational structure emphasizes that algorithms and data structures are inseparably intertwined. This course builds and elaborates on the concepts introduced in CPSC 140 and 246. This course will be taught in a language other than that used in CPSC 140 and 246.

Prerequisites & Notes

CPSC 246 and CPSC 311

Credits: 3

CPSC 376 - Programming Language and Theory

Programming languages are studied from the Theoretical viewpoint. The goal is deeper understanding of the design and translation of computer languages. Topics include compilation, automata and formal languages, computability by Turing machines and recursive functions, uncomputability, data types, data structures, binding scope, control mechanisms, conversions, storage management, reliability, portability, modularity, documentation, implementation methods and language extensibility.

Prerequisites & Notes

CPSC 246

Credits: 3

CPSC 378 - Theory of Computation

Both the classical and the contemporary theories of computation will be discussed in this course. The topics covered include the theory of automata and formal languages, computability by Turing machines and recursive functions, uncomputability, and proof of correctness of code.

Prerequisites & Notes

MATH 131 or CPSC311

Credits: 3

CPSC 390 - Experimental

A unique and specifically focused course within the general purview of a department which intends to offer it on a "one time only" basis and not as a permanent part of the department's curriculum.

Credits: 1 to 3

CPSC 395 - Workshop

A workshop is a program which is usually of short duration, narrow in scope, often non-traditional in content and format, and on a timely topic.

Credits: 1 to 3

CPSC 398 - Selected Topic

A **Selected Topics** course is a normal, departmental offering which is directly related to the discipline, but because of its specialized nature, may not be able to be offered on a yearly basis by the department.

Credits: 1 to 3

CPSC 405 - Data Mining and Data Analysis

This course provides a survey of data analysis and data mining techniques for finding patterns in data. It will emphasize, using data models, data gathering and storage, selection and preparing of data, model building and testing and interpreting and validating results.

If this course is taken as an undergraduate course, it can be taken again as a graduate course.

Prerequisites & Notes

CPSC 323

Credits: 3

CPSC 406 - Data Visualization

This course provides a survey of techniques for visualizing patterns in data. The course will emphasize modern and traditional methods for data visualization, including interactive visualization for data sets too large to display statically.

Prerequisites & Notes

STAT 152 and CPSC 146

Credits: 3

CPSC 415 - Advanced Bioinformatics

Advanced topics in Bioinformatics will be discussed in this course including: motif searching, biological networks analysis, next generation sequencing data analysis, programming for genomic data analysis, Data Mining techniques for biology problems such as Clustering of gene expression data, and Classification for protein function prediction.

Prerequisites & Notes

Prerequisites: CPSC 342, minimum grade "C"

Credits: 3

CPSC 417 - Advanced Web Technologies

The course emphasizes up-to-date technologies that enable the development of interactive Web applications. New Web standards and their applications and development toolkits will be exemplified. Advanced concepts in scripting languages for the Unix and Windows environments will be discussed.

Prerequisites & Notes

CpSc 317 (Scripting Languages)

Credits: 3

CPSC 423 - Computer Networks

This is an introduction to computer networks and data communications. Course content includes: the layered model; transmission and multiplexing; data link protocols; packet, point-to-point, and satellite transmission; local area networks; security and privacy. Examples of some well-known networks will be studied.

Prerequisites & Notes

CPSC 246 or CPSC 217

Credits: 3

CPSC 427 - Interface Design

This Information Technology majors' course uses graphical user interface design concepts to introduce interface design possibilities. This senior-level course requires students to produce an intricate interface that utilizes systems design, information management, systems administration and security, and programming concepts from lower-level courses. This course is intended as a capstone course that introduces human user interface theory and practice.

Prerequisites & Notes

CPSC 317 and CPSC 337

Credits: 3

CPSC 450 - Internship

Professional work experience performed as an intern at selected agencies supervised both by the agency and by the Computer Science Department.

Prerequisites & Notes

Computer science or information systems major with junior or senior standing, 2.750 GPA overall, 3.000 major GPA and application to the department one semester prior to the term in which the internship is to be undertaken

Credits: 1 to 12

CPSC 456 - Introduction to Computer Graphics

This course introduces the basics of interactive computer graphics including software and hardware requirements for computer graphics systems, graphics data structures, algorithms and programming languages, raster and random display devices, and graphics applications. Students will work with dedicated graphics computers in completing laboratory exercises and course projects.

Prerequisites & Notes

CPSC 374 or permission of the instructor

Credits: 3

CPSC 464 - Principles of Concurrent Programming and Operating Systems

An introduction to operating systems with emphasis on fundamental principles. These include store management, processor management, file systems, and input/output. Laboratory exercises are assigned using a language that supports concurrency. Distributed and “real time” illustrations are used, as well as standard operating system illustrations.

Prerequisites & Notes

CPSC 370, 374

Credits: 3

CPSC 466 - Compiler Design and Implementation

This is an introduction to language translation. Topics include specification of languages and its relation to automata, lexical analysis, finite state machines, context free languages, LL and LR parsing methods, syntax directed translation, error recovery, code generation, and portability.

Prerequisites & Notes

CPSC 370, 374, 376 and 378

Credits: 3

CPSC 474 - Advanced Architecture & Parallel Computing

This course will investigate the architecture and software models involved in parallel computing. We will explore both shared-memory and distributed-memory systems, along with the algorithms and languages involved in those systems.

Prerequisites & Notes

CPSC 370

Credits: 3

CPSC 476 - Artificial Intelligence

A survey of artificial intelligence topics including heuristic programming, search techniques, knowledge representation, expert systems, vision and speech in automators, pattern recognition, and robotics.

Prerequisites & Notes

CPSC 374 or permission of the instructor

Credits: 3

CPSC 478 - Analysis of Algorithms

An advanced study of algorithms and data structures. Analysis of algorithms, space and time complexity, and the NP classes will be considered. Significant illustrative individual or group programming projects are required. Examples may be drawn from heuristic programming, encipherment, natural language processing, object code generation, combinatorial analysis, graphics, robotics, relational databases, or other algorithmic issues of current importance.

Prerequisites & Notes

CPSC 374 or permission of the instructor

Credits: 3

CPSC 480 - Topics in Computer Science: Machine Learning

A survey of machine learning topics including heuristic programming, search techniques, knowledge representation, expert systems, fuzzy logic, neural networks, evolutionary algorithms and swarm intelligence.

Prerequisites & Notes

CPSC 374 or permission of instructor

Credits: 3

CPSC 485 - Big Data Analytics

This is a project driven course designed to provide techniques for acquiring, managing and analyzing massive unstructured data. Consideration will be given to both batch mode processing and real time analytics. Specific topics include the MapReduce parallel computing paradigm, distributed file systems, the Hadoop Ecosystem and its components such as Pig, Hive, HBase, Oozie, Yarn and Mahout, NoSQL databases, cloud computing, techniques for clustering and visualizing big data, Web analytics, machine learning in a big data setting and data security issues. Applications in business, engineering, health care and social networks will also be covered.

Prerequisites & Notes

CPSC 405

Credits: 3

CPSC 488 - Software Engineering

The course is the study of software engineering principles and design. The course will emphasize requirement analysis, design, testing, debugging and implementation of a semester long project. Students will work in groups for the project to be implemented. There will be multiple phases for the design and implementation of the project. The project will be implemented using a standard programming environment.

Prerequisites & Notes

CPSC 374 or permission of the instructor

Credits: 3

CPSC 490 - Independent Study

Supervised study in a special interest area. Prerequisites: Two computer science courses selected from 370 or above, permission of the instructor, departmental chairperson, and dean of the college where the study will be conducted. Independent Study courses give students the opportunity to pursue research and/or studies that are not part of the university's traditional course offerings. Students work one on one or in small groups with faculty guidance and are typically required to submit a final paper or project as determined by the supervising professor.

Credits: 1 to 3

CPSC 495 - Workshop

A workshop is a program which is usually of short duration, narrow in scope, often non-traditional in content and format, and on a timely topic.

Credits: 1 to 3

CPSC 498 - Selected Topics

The in-depth examination of a specific topic. For different topics, this course may be repeated for required elective credits toward a computer science major or minor.

A **Selected Topics** course is a normal, departmental offering which is directly related to the discipline, but because of its specialized nature, may not be able to be offered on a yearly basis by the department.

Prerequisites & Notes

Permission of the instructor

Credits: 1 to 3

CPSC 590 - Experimental

A unique and specifically focused course within the general purview of a department which intends to offer it on a "one time only" basis and not as a permanent part of the department's curriculum.

Credits: 3

CPSC 595 - Workshop

A workshop is a program which is usually of short duration, narrow in scope, often non-traditional in content and format, and on a timely topic.

Credits: 3

CPSC 598 - Selected Topic

A **Selected Topics** course is a normal, departmental offering which is directly related to the discipline, but because of its specialized nature, may not be able to be offered on a yearly basis by the department.

Credits: 3

CRIM 105 - Human Diversity

An orientation to living and working with diverse populations within modern American society, including examination of the strengths and stresses associated with diversities.

Credits: 3

CRIM 110 - Introduction to Criminology and Criminal Justice Systems

This course covers the basic principles of the criminal justice system and criminological theory. Students will be introduced to policing, corrections, the criminal court process, legal procedures, and criminological theories, among other fundamentals of the criminology discipline.

Credits: 3

CRIM 115 - Proseminar

This is a writing intensive course that prepares criminology/criminal justice students for standard academic and professional expectations for the field. This class encompasses writing requirements and style for criminal justice and basic library research skills.

Prerequisites & Notes

CRIM Majors/Minors only.

Credits: 1

CRIM 120 - Crime: Why Do We Do It?

This course examines different theoretical explanations of criminal behavior and how to test them using social science research methods. Further, the course explores how to translate these theories into public policy and draws attention to the interdisciplinary nature of the field of criminology.

Credits: 3

CRIM 139 - University Seminar

University Seminar serves as the entry point to the Slippery Rock University general education program. With its small seminar setting and strong faculty-student interaction, the course promotes intellectual inquiry, critical and creative thinking, and academic excellence. Through varied content, the course introduces students to academic discourse and information literacy while exploring topics such as diversity and inclusion and global awareness. This course will set students along the path to becoming engaged with issues and scholarship important to a 21st century education while they learn about themselves and their place in the world.

Credits: 3

CRIM 190 - Experimental

A unique and specifically focused course within the general purpose of a department which intends to offer it on a "one time only" basis and not as a permanent part of the department's curriculum.

Credits: 3

CRIM 195 - Workshop

A workshop is a program which is usually of short duration, narrow in scope, often non-traditional in content and format, and on a timely topic.

Credits: 3

CRIM 198 - Selected Topic

A **Selected Topics** course is a normal, departmental offering which is directly related to the discipline, but because of its specialized nature, may not be able to be offered on a yearly basis by the department.

Credits: 3

CRIM 253 - American Policing

This course covers the introductory elements of US policing and law enforcement. Topics of study include operations, legal aspects, ethics, diversity and other key issues.

Credits: 3

CRIM 263 - Introduction to Criminal Procedure

This course covers the processes of criminal procedure. It includes landmark legal cases; search and seizure requirements; use of force; arrest; interrogation and court structures.

Credits: 3

CRIM 273 - American Corrections

Examines the legally sanctioned methods of dealing with lawbreakers. The correctional methods studied will include institutional and community corrections, and the newer dispositions such as community service, restitution, and electronic monitoring. Current issues examined will include prison gangs, the problem of AIDS, women in prison, and prison privatization.

Prerequisites & Notes

CRIM Majors/Minors only.

Credits: 3

CRIM 290 - Experimental

A unique and specifically focused course within the general purpose of a department which intends to offer it on a "one time only" basis and not as a permanent part of the department's curriculum.

Credits: 3

CRIM 295 - Workshop

A workshop is a program which is usually of short duration, narrow in scope, often non-traditional in content and format, and on a timely topic.

Credits: 3

CRIM 298 - Selected Topic

A **Selected Topics** course is a normal, departmental offering which is directly related to the discipline, but because of its specialized nature, may not be able to be offered on a yearly basis by the department.

Credits: 3

CRIM 301 - Theoretical Criminology

A critical review of pure and applied theory within the field of criminology, including coverage of classical, biological, psychological, sociological, economic, political, and integrated theories of the causes of crime.

Prerequisites & Notes

CRIM 110 or CSS 120 (with a grade of D or better); CRIM and CSS Majors/Minors only.

Credits: 3

CRIM 317 - Statistical Methods in Criminology and Criminal Justice

This course is designed to introduce students to basic principles of probability theory, data analysis and data interpretation. Using SPSS, students will engage in basic data analysis, including descriptive and inferential statistics. More specifically, this course will cover univariate and bivariate measures, analyses of cross classified data, correlation, t-tests, analysis of variance, regression and related measures. Emphasis will be placed on how to use, interpret and understand some of the basic techniques used by criminal justice researchers and practitioners.

Prerequisites & Notes

CRIM 110 or HSS 120; CRIM and HSS Majors/Minors only.

Credits: 3

CRIM 318 - Research Methods in Criminology and Criminal Justice

This course is an introduction to criminological research that is intended to develop the student's research and analytical skills. Specifically, the course will focus on the theory of inquiry, research design, data gathering methods (surveys, secondary data and unobtrusive methods, field observation), evaluation research analysis, sampling and research reporting. Students will also learn how to use library resources as well as electronic resources.

Prerequisites & Notes

CRIM 317 or PROF 317 or SOWK 317 or SASW 317 (Minimum Grade of D); CRIM Majors only.

Credits: 3

CRIM 321 - Criminal Justice Interventions 1

A review of basic theories, philosophies, methods, and skills that underlie successful community and correctional-based interventions with individuals serviced by the federal, state, and/or local criminal justice systems. Coverage will include the overrepresentation of minorities within the American correctional system and service provision to culturally diverse populations.

Prerequisites & Notes

CRIM 110 AND CRIM 273; CRIM Majors only.

Credits: 3

CRIM 322 - Criminal Justice Interventions 2

A review of basic theories, philosophies, methods, and skills that underlie successful community and correctional-based interventions with an emphasis on groups and families serviced by the federal, state, and/or local criminal justice systems. Topic coverage also includes examining the overrepresentation of minorities under correctional supervision and service provision to culturally diverse populations.

Prerequisites & Notes

CRIM 110 AND CRIM 273 (with a grade of D or better).

Credits: 3

CRIM 326 - Victimology

This course will present the student with a detailed understanding of the scope of victimology and the extent of criminal victimization by examining specific crimes types, the impact of crime on victims and society, the role of victims within the criminal justice system, specific remedies, and victim rights and services.

Credits: 3

CRIM 327 - Criminal Justice & the Multicultural Community

This course will examine current issues and social problems relating to the administration of justice in a culturally diverse society. The focus of the course will be on the changing ethnicity of communities and related changes in social and institutional public policy.

Credits: 3

CRIM 328 - Transnational Crime & Justice

This course focuses on the historical development and current status of various forms of transnational crime from the perspective of the international criminal justice community. This course explores the roots and operations of organized crime and how globalization has facilitated the emergence of transnational organized crime in the U.S. and in various regions throughout the world. Particular emphasis is given to issues of drug trafficking, illegal arms trade, money laundering, human trafficking and sex trafficking. This course also examines the current strategies for the containment and control of such activities.

Credits: 3

CRIM 333 - Crime, Justice and Society

An exploration of the major theories of crime with an emphasis of those contemporary theories that explore the relationship of race, gender, and crime. Topics may include prostitution, rape, hate crimes, and crimes against the gay community.

Credits: 3

CRIM 343 - Criminal Investigations

This course provides an introduction to criminal evidence and investigations. The topics include how evidence is collected and developed, the different types of evidence, the role of evidence in investigation, and basic investigative principles.

Credits: 3

CRIM 345 - Juvenile Delinquency

The behaviors of adolescents in modern societies have resulted in the need for society to exert various methods of social control. The reasons for these formal and informal control strategies are examined from sociological view of institutional changes.

Prerequisites & Notes

CRIM 110 with a grade of D or better; CRIM Major/Minor only.

Credits: 3

CRIM 360 - Police and Society

This class examines the role of law enforcement and policing in contemporary society. This course also covers the history of policing, policing theory, police culture, different law enforcement agencies, and the social role of modern police agencies.

Prerequisites & Notes

CRIM 110 or HSS 120 with a grade of D or better.

Credits: 3

CRIM 370 - Inside Out Views of Criminal Justice Issues

This course creates a partnership between institutions of higher learning and correctional systems in order to deepen the conversation about criminal justice issues and transform our approaches to understanding crime, society's response to it, justice, inequality, and other issues of social concerns. This semester-long class brings together college students and incarcerated men or women to study as peers behind prison walls.

Prerequisites & Notes

Prerequisites: CRIM 110

Credits: 3

CRIM 380 - Women & the Criminal Justice System

This course will focus on theoretical and contemporary issues involving female practitioners, victims and offenders in the criminal justice system. Students will have the opportunity to become acquainted with and evaluate the political, legal and social issues of crime relating to women. This course will also examine diversity issues. More specifically, this course will examine how gender, race/ethnicity and class are related to the way they are treated in the criminal justice system in the U.S.

Credits: 3

CRIM 390 - Experimental

A unique and specifically focused course within the general purview of a department which intends to offer it on a "one time only "basis and not as a permanent part of the department's curriculum.

Credits: 3

CRIM 395 - Workshop

A workshop is a program which is usually of short duration, narrow in scope, often non-traditional in content and format, and on a timely topic.

Credits: 3

CRIM 398 - Selected Topic

A **Selected Topics** course is a normal, departmental offering which is directly related to the discipline, but because of its specialized nature, may not be able to be offered on a yearly basis by the department.

Prerequisites & Notes

CRIM 110

Credits: 3

CRIM 402 - Forensic Behavior: Crime and the Individual

This course explores aspects of mental illness, cognitions, psychopathology, mental disorders and other psychological aspects of criminal behavior and their relation to theories of crime. This is a cross-listed course that will fulfill either graduate or undergraduate credit.

Credits: 3

CRIM 404 - Applied Criminal Procedures

This course addresses the history, legalities, trends and controversies in law adjudication as it pertains to issues of crime and justice. Students will examine the topics of criminal law, landmark cases, prosecution, defense, court procedures and decision-making and their interaction with our society.

Prerequisites & Notes

CRIM 110 OR HSS 120

Credits: 3

CRIM 405 - White Collar Crime

This course explores the complex issues surrounding white collar crime. In terms of white collar crime, the topics addressed may include: the complexities of defining it, theoretical explanations for it, the economical, physical and social costs that result from these types of crimes, and the issues the criminal justice system faces in trying to control it.

Prerequisites & Notes

CSS 351

Credits: 3

CRIM 408 - Capstone: Ethics and Criminal Justice

This course examines the traditional schools of ethical thought and how they are applicable to the field of criminology, crime, and justice. Students will study formal works in ethics and morality and develop understanding of their role in the criminal justice professions as well as issues of crime, law, and society. This course is designed as a writing intensive course.

Prerequisites & Notes

Prerequisite: CRIM 115 and CRIM Major/Minor and senior standing.

Credits: 3

CRIM 414 - Criminal Justice Policy

This course explores the contemporary criminal justice system, major systems of social control and their policies and practices; as well as policies related to courts, victimology, juvenile justice and comparative criminal justice. These policies will be studied through the lenses of individual liberties, collective formalized controls, multicultural factors and issues related to race, gender and diversity.

Prerequisites & Notes

CRIM 110 or HSS 120; CRIM or HSS Majors or Minors only; Senior standing

Credits: 3

CRIM 416 - Community Corrections

The course explores the origins of community corrections and its role in the American criminal justice system. Starting with pre-arrest diversion, the course covers the major issues and topics associated with community correction programs. Students are required to complete a service learning component.

Prerequisites & Notes

CRIM 110 AND CRIM 273 with a grade of D or better.

Credits: 3

CRIM 422 - The Death Penalty

An examination of the problems and issues related to the death penalty in the United States, including the history of capital punishment, important Supreme Court decisions, how the various jurisdictions deal with capital cases, the

comparative costs of incarceration and execution, miscarriages of justice in capital cases, the impact of minority status, and how the criminal justice system responds to these issues.

Prerequisites & Notes

CRIM 110 and CRIM 115 with a grade of D or better.

Credits: 3

CRIM 450 - Internship

Supervised placement in selected professional agencies.

Prerequisites & Notes

Permission of field committee

Credits: 1 to 12

CRIM 468 - Crime and Media

This course will examine images of crime and criminal justice as portrayed and presented by the mass media including popular media (fictional television show, music, novels, etc.) as well as "news" programming and print media. More specifically, the course will analyze how crime and criminals, and criminal justice systems (police, courts and corrections) are portrayed by the mass media. This course will analyze the media's relationship to criminological theories as well as to criminal justice policies and practices. This course will also examine how gender, race and class are related to the way crime is depicted in the mass media.

Credits: 3

CRIM 490 - Independent Study

Independent Study courses give students the opportunity to pursue research and/or studies that are not part of the university's traditional course offerings. Students work one on one or in small groups with faculty guidance and are typically required to submit a final paper or project as determined by the supervising professor.

Credits: 3

CRIM 495 - Workshop

A workshop is a program which is usually of short duration, narrow in scope, often non-traditional in content and format, and on a timely topic.

Credits: 3

CRIM 498 - Selected Topics

The in-depth examination of a specific topic. The nature of the topic selected and its treatment determined in consultation with the instructor.

A **Selected Topics** course is a normal, departmental offering which is directly related to the discipline, but because of its specialized nature, may not be able to be offered on a yearly basis by the department.

Prerequisites & Notes

CRIM 110

Credits: 1 to 3

CSS 100 - Modern Security

This course will explore the ever-changing security environment confronting domestic governments in securing its homeland, for-profit and non-profit organizations, and individuals. This course will discuss the history of security, the sub-topics of security, and whether insecurities can be eliminated, prevented, or merely managed. Students will apply risk assessment procedures, devise solutions to complex security issues, and weigh the strengths and weaknesses of those solutions. The student will be able to assess the complexity of solving modern day security problems when confronting economic limitations, policy and legal implications, and the feasibility of providing security to diverse populations.

Credits: 3

CSS 120 - Introduction to Private Security

This course will provide an overview of the private security field and the numerous complexities within it. Topics include but are not limited to an overview of private security, the basic goals and responsibilities of the industry, the challenges facing security, and various security systems for infrastructure, institutional and commercial organizations.

Credits: 3

CSS 139 - University Seminar

University Seminar serves as the entry point to the Slippery Rock University general education program. With its small seminar setting and strong faculty-student interaction, the course promotes intellectual inquiry, critical and creative thinking, and academic excellence. Through varied content, the course introduces students to academic discourse and information literacy while exploring topics such as diversity and inclusion and global awareness. This course will set students along the path to becoming engaged with issues and scholarship important to a 21st century education while they learn about themselves and their place in the world.

Credits: 3

CSS 190 - Experimental

A unique and specifically focused course within the general purview of a department which intends to offer it on a "one time only" basis and not as a permanent part of the department's curriculum.

Credits: 1-3

CSS 195 - Workshop

A workshop is a program which is usually of short duration, narrow in scope, often non-traditional in content and format, and on a timely topic. The course outline will be determined by the instructor based on key developments, trends or specialized content within homeland security. Permission of instructor.

Credits: 3

CSS 198 - Selected Topic

A workshop is a program which is usually of short duration, narrow in scope, often non-traditional in content and format, and on a timely topic. The course outline will be determined by the instructor based on key developments, trends or specialized content within homeland security. Permission of instructor.

Credits: 3

CSS 210 - Physical Security

This course discusses the methods, processes, and policies surrounding the security protection of the workplace. Students will study the historical roots of physical protection of assets, cultural contexts and interpretations of security efforts, as well as the way modern technology is changing the methods and focus of protection programs. The important elements of physical barriers, electronic controls and surveillance, and procedural efforts to secure assets will be examined. The role of the Security Manager in regulated workspaces will be discussed.

Prerequisites & Notes

Prerequisite: CSS 120

Credits: 3

CSS 240 - Security Management

This course will examine the security department's role and function within an organization and the activities associated with operating and managing the department. This course will also look at how to manage various relationships security professionals encounter both internally and externally.

Prerequisites & Notes

Prerequisites: CSS 120 with a grade of C or better

Credits: 3

CSS 290 - Experimental

A unique and specifically focused course within the general purview of a department which intends to offer it on a "one time only" basis and not as a permanent part of the department's curriculum.

Credits: 1-3

CSS 295 - Workshop

A workshop is a program which is usually of short duration, narrow in scope, often non-traditional in content and format, and on a timely topic. The course outline will be determined by the instructor based on key developments, trends or specialized content within homeland security. Permission of instructor.

Credits: 3

CSS 298 - Selected Topic

A workshop is a program which is usually of short duration, narrow in scope, often non-traditional in content and format, and on a timely topic. The course outline will be determined by the instructor based on key developments, trends or specialized content within homeland security. Permission of instructor.

Credits: 3

CSS 300 - Personnel Security

This course discusses the structures, processes, and regulations surrounding the security protection of people in the workplace. Students will study and weigh the advantages and legal restrictions of background checks as a condition of employment. Protection of workers in general, as well as programs to safeguard executives, workers in controversial industries/fields, and the design of policies and programs providing protection for workers with special issues outside the workplace will be examined. Defining, preventing and reacting to workplace violence will be explored.

Prerequisites & Notes

Prerequisites: CSS 120 or HSS 120

Credits: 3

CSS 320 - Security Risk and Emergency Mgmt

This course will provide guidance how to conduct risk assessments, handle emergencies and develop and implement business contingency and disaster recovery plans. students will learn how to develop and use risk surveys and other information gathering techniques, and design and implement controls by understanding cost/benefit analysis, crime prediction, response planning and business impact analysis.

Prerequisites & Notes

CSS 240 with a grade of C or better

Credits: 3

CSS 351 - Fraud

Approximately 5% of U.S. organizations annual revenues are lost to fraud each year. This course explores the historical and social problems created by fraud, the ethical and legal issues fraud presents to organizations and our economy; and the principles of fraud detection, examination, and prevention organizations employ to combat fraud in order to minimize both economic losses and a loss of jobs.

Credits: 3

CSS 352 - Law and Ethics in the Workplace

This course explores the historical, legal, ethical and practical implications of legal rights of workers in organizational relationships. This course will provide the historical evolution of protective legislation for workers and the continual refinement of common law to workers' rights. Ethical issues not addressed by the law will be explored as well as the importance of diversity in order to provide maximum growth for society and all individuals.

Credits: 3

CSS 354 - Risk Assessment and Fraud

Every level of today's organizations must make ethics and organizational integrity a priority. Controlling for risk and preventing fraud are critical skills leaders in every organization will be called upon to exercise. Focus must be placed on fraud prevention, internal controls, compliance with regulations and other risk exposure. Students will apply course concepts to their own disciplines.

Credits: 3

CSS 360 - Specialized Fraud Schemes

This course will examine specialized frauds such as identity theft, financial institution fraud, payment fraud, insurance fraud, healthcare fraud, contract and procurement fraud, tax fraud, and bankruptcy fraud. A thorough analysis of money laundering and its place in specialized fraud schemes will be reviewed. For each type of specialized fraud, we will explore the various types of fraud schemes within these specialized frauds and the controls that can be implemented to prevent or detect them.

Prerequisites & Notes

Prerequisites: CSS 351 and ACT 209

Credits: 3

CSS 370 - Fraud Law and Report Writing

This course will examine both domestic and international laws surrounding fraud. We will discuss the special non-governmental agencies assisting in the fight against fraud domestically and worldwide and their recommended compliance guidelines. In this class we will also discuss how to write an effective fraud report for various audiences. Ethical responsibilities of a fraud examiner will also be examined.

Prerequisites & Notes

Prerequisites: CSS 351

Credits: 3

CSS 390 - Experimental

A unique and specifically focused course within the general purview of a department which intends to offer it on a "one time only" basis and not as a permanent part of the department's curriculum.

Credits: 1-3

CSS 395 - Workshop

A workshop is a program which is usually of short duration, narrow in scope, often non-traditional in content and format, and on a timely topic. The course outline will be determined by the instructor based on key developments, trends or specialized content within homeland security. Permission of instructor.

Credits: 3

CSS 398 - Selected Topic

A workshop is a program which is usually of short duration, narrow in scope, often non-traditional in content and format, and on a timely topic. The course outline will be determined by the instructor based on key developments, trends or specialized content within homeland security. Permission of instructor.

Credits: 3

CSS 420 - Fraud Examination

This course will expose the student to an in-depth analysis of the fraud schemes perpetrated by those within and external to organizations. The elements of fraud schemes, the red flags associated with each scheme and how the scheme can be prevented and detected will be analyzed. This course will also emphasize financial statement fraud, and external fraud schemes from customers, vendors and unrelated third parties. Corporate espionage will also be covered.

Prerequisites & Notes

Prerequisites: CSS 351 with a grade of C or better, Corporate Security Studies majors only

Credits: 3

CSS 430 - Corporate Security Law

This course will cover the pertinent security laws surrounding an investigation and developing a case for prosecution. It will also cover the various laws security professionals can breach while conducting security investigations.

Prerequisites & Notes

Prerequisites: CSS 351, C or better. Corporate Security majors and minors.

Credits: 3

CSS 440 - Corporate Security Investigation

This course will provide the fundamentals of corporate security investigations, the methods used in an investigation, how to build a case, apply investigative strategies, use investigative technology and write an effective report. The course will also emphasize the ethics, values and laws one must consider when conducting an effective investigation.

Prerequisites & Notes

Prerequisites: CSS 430 with a grade of C or better. Corporate Security majors and minors.

Credits: 3

CSS 450 - Internship

Supervised placement and research in selected public and private agencies.

Credits: 3 to 9

CSS 460 - Corporate Security Capstone

Student will apply and demonstrate prior knowledge, skills and abilities to a major project which will be communicated both in written and oral forms. This course will cover current topics in corporate security and current global issues challenging security. A discussion of professional ethics, proper etiquette and interviewing skills, negotiation and conflict resolution skills will also be discussed.

Prerequisites & Notes

Prerequisites: CSS 340 and CSS 440 with a grade of C or better. Corporate Security majors.

Credits: 3

CSS 490 - Independent Study

Independent Study courses give students the opportunity to pursue research and/or studies that are not part of the university's traditional course offerings. Students work on one or in small groups with faculty guidance and are typically required to submit a final paper or project as determined by the supervising professor.

Credits: 1 to 3

CSS 495 - Workshop

A workshop is a program which is usually of short duration, narrow in scope, often non-traditional in content and format, and on a timely topic. The course outline will be determined by the instructor based on key developments, trends or specialized content within homeland security. Permission of instructor.

Credits: 3

CSS 498 - Selected Topic

A workshop is a program which is usually of short duration, narrow in scope, often non-traditional in content and format, and on a timely topic. The course outline will be determined by the instructor based on key developments, trends or specialized content within homeland security. Permission of instructor.

Credits: 3

CYBR 101 - Cybersecurity in the Era of Evolving Technology

This course covers the fundamental concepts and design principles behind cybersecurity. This course will provide the students with the awareness, knowledge, opportunity and resources to develop the cybersecurity skills required for full participation as informed, responsible, ethical and productive citizens. Through research-oriented discussions and projects, the course will focus on security design, principles, ethics and models that all students should know and be able to apply independently when using technology, computing systems, digital media and information technology, including the internet.

Credits: 3

CYBR 139 - University Seminar

University Seminar serves as the entry point to the Slippery Rock University general education program. With its small seminar setting and strong faculty-student interaction, the course promotes intellectual inquiry, critical and creative

thinking, and academic excellence. Through varied content, the course introduces students to academic discourse and information literacy while exploring topics such as diversity and inclusion and global awareness. This course will set students along the path to becoming engaged with issues and scholarship important to a 21st century education while they learn about themselves and their place in the world.

Credits: 3

CYBR 301 - Secure Programming

This class will present the basic topics in computer security and their relationship to secure programming. A broad array of topics in secure software development will be covered such as the following: Security models, threats, design principles and secure coding practices. The course will cover programming language features and semantics to evaluate and to facilitate implementation of programs that are free from vulnerabilities. Additionally, different types of systems including web-based systems and some internals of OS kernel software testing and exploitation will be explored. Moreover, the software design patterns to built-in security during the architectural phase of the lifecycle will also be covered in detail.

Prerequisites & Notes

Prerequisite: CPSC 246 with minimum grade of C.

Credits: 3

CYBR 353 - Software Assurance

This class will present a detailed description of software assurance practices, methods, and tools required throughout the software development life-cycle. The students will apply the development lifecycle processes and methodologies to explore common programming errors and to evaluate the common software testing tools.

Prerequisites & Notes

Prerequisite: CPSC 246 with minimum grade of C.

Credits: 3

CYBR 401 - Software Security Analysis

This course presents the tools and methods for analyzing software security. This course will focus on software penetration testing and will stress the critical aspects of software security testing in all phases of the software development life cycle with special emphasis on applications that are about to be deployed. An in-depth discussion on various security testing methods and tool vulnerabilities will be taught with hands-on demo of concepts during the class. Students will learn how to perform penetration testing in a practical way using well-established tools. The course will cover a wide range of topics such as web architecture, application infrastructure, reconnaissance, discovery, mapping, and exploitation.

Prerequisites & Notes

Prerequisite: CYBR 353 with minimum grade of C.

Credits: 3

CYBR 471 - Malware Analysis

This course covers foundational knowledge of discovering software vulnerabilities. The topics of reverse engineering and malware investigation will be presented in detail through the study of various cases and hand-on analysis of

malware samples. It covers fundamental techniques that are used to analyze both source and binary code to equip the students with enough background knowledge for examining current threats and discussing the actions needed to prevent attackers from taking advantage of both known and unknown vulnerabilities.

Prerequisites & Notes

Prerequisite: CYBR 401 with minimum grade of C.

Credits: 3

DANC 100 - Dance: Art and Culture

This course will include a comprehensive overview of dance as an art form, entertainment, and social activity. A broad historic overview of dance will be presented, as well as information on the role of the dancer, choreographer, and audience. Specific dance genres such as ballet, modern, jazz, and world dance will also be the focus of this course. Students will be required to attend certain dance events for this course; some may require a fee.

Credits: 3

DANC 101 - Wellness for Dancers

The first component of this course will cover body conditioning methods, injury prevention and basic concepts of anatomy and kinesiology. Additionally this course may include, but not be limited to, nutrition, weight management, fitness and strength practices specific to the needs of the dancer.

The second component of this course will cover time/stress management, study skills and an introductory approach to writing techniques and research methodologies.

Students may be required to attend on-campus dance events and some may require a fee.

Credits: 3

DANC 105 - Dance Fundamentals

Students will explore the elements of dance through creative activities and have movement experiences in the dance genres of folk, square and social dance. Students will gain an understanding of dance as an academic discipline, as well as the importance of dance as an art form, entertainment, and life-long social/recreational activity.

Students will be required to attend certain dance events for this course; some may require a fee.

Credits: 2

DANC 125 - Experiencing Dance: Techniques and Styles

DANC 125 is an introduction to dance and movement techniques. It will focus on establishing a basic foundation in dance with emphasis on correct alignment, technique, and the unique stylistic components of a variety of dance genres. In this course, students will develop the ability to demonstrate and synthesize technical corrections, understand the elements of dance (space, time and energy), and perceive dance as an art form. This course may include dance genres such as Modern Dance, Jazz, Ballet, Improvisation, African-Based Dance, Social Dance, and dance-related practices such as Yoga and Pilates. In addition to the technical component of the course, students will examine the historic, cultural and social contexts in which these dance styles have been developed. DANC 125 is a blended course. The dance technique component takes place in the dance studio; the lecture/research/reading/writing component takes place online. This course may be repeated up to nine credits. Prerequisites and Notes: Students may be required to attend dance events and some may require a fee.

Credits: 3

DANC 139 - University Seminar

University Seminar serves as the entry point to the Slippery Rock University general education program. With its small seminar setting and strong faculty-student interaction, the course promotes intellectual inquiry, critical and creative thinking, and academic excellence. Through varied content, the course introduces students to academic discourse and information literacy while exploring topics such as diversity and inclusion and global awareness. This course will set students along the path to becoming engaged with issues and scholarship important to a 21st century education while they learn about themselves and their place in the world.

Credits: 3

DANC 190 - Experimental

A unique and specifically focused course within the general purview of a department which intends to offer it on a "one time only" basis and not as a permanent part of the department's curriculum. Students will be required to attend certain dance events for this course; some may require a fee.

Credits: 3

DANC 198 - Selected Topic

A **Selected Topics** course is a normal, departmental offering which is directly related to the discipline, but because of its specialized nature, may not be able to be offered on a yearly basis by the department.

Students will be required to attend certain dance events for this course; some may require a fee.

Credits: 1-3

DANC 198 - Workshop

A workshop is a program which is usually of short duration, narrow in scope, often non-traditional in content and format, and on a timely topic.

Students will be required to attend certain dance events for this course; some may require a fee.

Credits: 1 to 3

DANC 199 - LMA/Performance Techniques

This course will focus on the theoretical and practical application of Laban Movement Analysis and dance performance skills. Students will be encouraged to explore the relationship between research, concept development and personal style through the performance of original solo choreography.

Students may be required to attend on and off campus dance events; some may require of fee.

Prerequisites & Notes

DANC 200 and DANC 224

Credits: 2

DANC 200 - Dance Composition I

This course will be an introduction to the elements of dance (space, time, and energy) and to the practice, theory, and art of dance composition. Experiences in solo and ensemble compositions will focus on improvisation, and lead to understanding content, aesthetics, creating, structuring, and ultimately choreography.

Students will be required to attend certain dance events for this course; some may require a fee.

Prerequisites & Notes

Dance 224 Improvisation

Credits: 3

DANC 216 - Principles of Dance Production

This course provides knowledge and practical hands-on experience in the many aspects of dance production and performance. A broad range of topics will prepare students for producing their work and collaborating with other artists and disciplines.

Students will be required to attend certain dance events for this course; some may require a fee.

Credits: 3

DANC 220 - Modern Dance Technique: Level II

This modern dance technique course provides students with the theoretical and practical information needed to improve technical skills, moment mechanics, and performance quality. The course may be repeated for a maximum of 6 credits. Course content will vary each semester. Students will be required to attend certain dance events for this course; some may require a fee.

Prerequisites & Notes

Must be a dance major or minor.

Credits: 2

DANC 221 - Ballet II

This course will develop technique and artistry, and will include barre and center exercises of increased complexity and difficulty. The student will develop precision in executing movements and develop the facility to learn movements quickly. The course may be repeated for a maximum of 6 credits. Course content will be different each semester. Students will be required to attend certain dance events for this course; some may require a fee.

Prerequisites & Notes

Must be a dance major or minor.

Credits: 2

DANC 222 - Jazz Dance II

This intermediate level course is a furthering and continuation of setting the foundation in Jazz Dance I. This second level jazz technique course is designed to refine and enhance the student's performance skills, technique, and stylistic

approaches to jazz dance. Course may be repeated for a maximum of 6 credits. Course content will be different each semester.

Students will be required to attend certain dance events for this course; some may require a fee.

Prerequisites & Notes

Must be a dance major or minor

Credits: 2

DANC 223 - Creative Dance for Children

The intellectual and artistic impact of Creative Dance for Children, in both academic and studio settings serves as the primary focus of this course. Laban-based movement principles will be explored through creative and improvisational experiences leading to lesson and unit plans in dance addressing a variety of academic areas suitable for use by classroom teachers and dance specialists. Students will gain an appreciation for dance as an art form and an understanding of how dance can address several academic disciplines most appropriate for inclusion in a grade K-5 curriculum. State and national dance standards will be addressed with additional experiences in lesson planning, pedagogy and peer teaching.

Students will be required to attend certain dance events for this course; some may require a fee.

Credits: 2

DANC 224 - Improvisation

This course provides the student opportunities to explore the processes of discovering, creating and performing movement spontaneously through experiential practice, creative research and writing. Course content will vary each semester. Students will be required to attend certain dance events for this course; some may require a fee. The course may be repeated for a maximum of 4 credits.

Prerequisites & Notes

Must be a dance major or minor

Credits: 2

DANC 271 - Dance Technology

This hands-on course will explore the interactive possibilities between the live dancer and the projected image, as well as the temporal and spatial possibilities of dance on film. Students will direct, shoot, and edit original video compositions using current technology, as well as perform in a multi-media work.

Credits: 3

DANC 290 - Experimental

A unique and specifically focused course within the general purview of a department which intends to offer it on a "one time only" basis and not as a permanent part of the department's curriculum.

Students will be required to attend certain dance events for this course; some may require a fee.

Credits: 1 to 3

DANC 295 - Workshop

A workshop is a program which is usually of short duration, narrow in scope, often non-traditional in content and format, and on a timely topic.

Students will be required to attend certain dance events for this course; some may require a fee.

Credits: 1 to 3

DANC 298 - Selected Topic

A **Selected Topics** course is a normal, departmental offering which is directly related to the discipline, but because of its specialized nature, may not be able to be offered on a yearly basis by the department.

Students will be required to attend certain dance events for this course; some may require a fee.

Credits: 1 to 3

DANC 299 - Dance Rehearsal & Production

This course provides dance majors and minors the opportunity to receive credit for the numerous hours spent in rehearsals and performances. Students will select specific activities and then develop a contract for completion of responsibilities and evaluation. Tasks may include choreographer, rehearsal assistant, rehearsal and performance as a dancer, publicity or as member of the technical support staff during performance (stage manager, running crew, usher, lighting). This course requires an audition and/or permission of the faculty member of record.

Prerequisites & Notes

For Dance majors and Minors only

Credits: 1

DANC 300 - Dance Composition II

This second level of dance composition will include creating choreography based on specific forms of movement and music, emotion oriented and movement oriented dances, dances utilizing props and sets, and site-specific dance.

Students will be required to attend certain dance events for this course; some may require a fee.

Prerequisites & Notes

DANC 200

Credits: 3

DANC 305 - Society and Social Dance

This course will examine the relationship between social dance and the social, political and cultural climate of the society in which the specific dance forms were created and performed. Emphasis will be placed on 20th century American social dance forms and styles.

Students will be required to attend certain dance events for this course; some may require a fee.

Prerequisites & Notes

*No prerequisites. *Introduction to DANC 100 highly recommended.

Credits: 3

DANC 318 - Dance in the Political World

Through various critical lenses, this course analyzes the choreographic production of influential dance makers in a variety of geographic areas through the nineteenth century. This course is anchored on the term choreography and its multiple meanings, ranging from orchestrated movement performed on a proscenium stage to organized movements and actions of bodies in everyday life. This course is structured to permit the student to view dance through a variety of theoretical lenses.

Students will be required to attend certain dance events for this course; some may require a fee.

Credits: 3

DANC 320 - Modern Dance Technique: Level III

This third level modern dance technique course provides students with the theoretical and practical information needed to extend their knowledge and acquire additional understanding of technical skills, movement mechanics, and performance quality. The course may be repeated for a maximum of 6 credits. Course content will vary each semester. Students will be required to attend certain dance events for this course; some may require a fee.

Prerequisites & Notes

Must be a dance major or minor.

Credits: 2

DANC 321 - Ballet III

Exercises learned in levels I and II increase in speed, complexity and duration in level III. New movements and their terminology will be introduced. Emphasis is also placed on the development and improvement of the student's performance qualities. The course content will vary each semester. Students will be required to attend certain dance events for this course; some may require a fee.

Prerequisites & Notes

Must be a dance major or minor.

Credits: 2

DANC 322 - Jazz III

This third level course requires the student with a proficient level in jazz dance to extend their knowledge and acquire additional understanding of technical material and performance quality. Emphasis will be placed on the attainment of artistic qualities essential for the performance of jazz dance repertory. Course may be repeated for a total of 6 credits. Course content will be different each semester.

Students will be required to attend certain dance events for this course; some may require a fee.

Prerequisites & Notes

must be a dance major or minor.

Credits: 2

DANC 323 - Teaching of Dance

This course is designed to introduce students to the theory and practice of sound dance teaching and ethical teaching practices. Information on critical thinking, teaching and learning styles, imagery, diversity, and assessment will be explored. Students' abilities and strengths as teachers will be assessed and evaluated throughout the semester. This course must be taken with Field Experience, DANC 350, which allows the students to have practical teaching experiences.

Students will be required to attend certain dance events for this course; some may require a fee.

Prerequisites & Notes

DANC 223 and DANC 326; co-requisite DANC 350

Credits: 3

DANC 324 - Music for Dance

This course is designed to provide students with information regarding music for dance performance, production, and accompaniment.

Students will be required to attend certain dance events for this course; some may require a fee.

Prerequisites & Notes

For Dance Majors and Minors only

Credits: 3

DANC 326 - Dance Kinesiology

This course includes the study of human movement specific to dance, with emphasis on the anatomical principles and the laws of physics as they apply to dance technique and performance. The course includes structural and neuromuscular analyses including individual analysis of alignment, muscular imbalances, body types, conditioning needs and movement behavior.

Students will be required to attend certain dance events for this course; some may require a fee.

Prerequisites & Notes

For Dance Majors and Minors only

Credits: 3

DANC 350 - Field Experience in Dance Technique

Field Experience provides the opportunity for students to teach in private studios, recreation centers and/or the public/private school systems. To be taken concurrently with DANC 323.

Students will be required to attend certain dance events for this course; some may require a fee.

Prerequisites & Notes

DANC 223 and DANC 326; co-requisite: DANC 323

For Dance Majors and Minors only

Credits: 1

DANC 390 - Experimental

A unique and specifically focused course within the general purview of a department which intends to offer it on a "one time only "basis and not as a permanent part of the department's curriculum.
Students will be required to attend certain dance events for this course; some may require a fee.

Credits: 1 to 3

DANC 395 - Workshop

A workshop is a program which is usually of short duration, narrow in scope, often non-traditional in content and format, and on a timely topic.
Students will be required to attend certain dance events for this course; some may require a fee.

Credits: 3

DANC 398 - Selected Topic

A **Selected Topics** course is a normal, departmental offering which is directly related to the discipline, but because of its specialized nature, may not be able to be offered on a yearly basis by the department.

Students will be required to attend certain dance events for this course; some may require a fee.

Credits: 1 to 3

DANC 399 - Repertory

This course provides students with an in-depth experience in an aspect of scholarly research, performance experience and/or creative process. This course may be repeated for a total of 6 credits. Course content will vary each semester the course is offered.

Students will be required to attend certain dance events for this course; some may require a fee.

Prerequisites & Notes

Dance majors and minors only.

Credits: 2

DANC 419 - Dance in Contemporary Times

This course examines specific genres and historical developments in dance in the 20th and 21st centuries. The aesthetics and philosophies of leading dance artists will be explored.

Students will be required to attend certain dance events for this course; some may require a fee.

Prerequisites & Notes

For Dance Majors and Minors only

Credits: 3

DANC 420 - Modern Dance Technique: Level IV

This fourth level modern dance technique course provides students with the theoretical and practical information needed to synthesize their knowledge and acquire an advanced understanding of critical thinking, technical skills, body awareness, body alignment and performance quality. The course may be repeated for a maximum of 6 credits. Course content will vary each semester. Students will be required to attend certain dance events for this course; some may require a fee.

Prerequisites & Notes

For Dance Majors and Minors only

Credits: 2

DANC 421 - Ballet IV

In this fourth level course, students will review and build upon the content of levels I-III and will learn advanced-level movement and terminology. The focus of the course will be on technique and artistic presentation. Course may be repeated for a maximum of 6 credits. The course content will vary each semester. Students will be required to attend certain dance events for this course; some may require a fee.

Prerequisites & Notes

Must be a dance major or minor; Permission of Instructor.

Credits: 2

DANC 422 - Jazz IV

This fourth level course is designed to enhance the student's development of performance skills, technique, and styles of jazz dance. Emphasis will be placed on the attainment of artistic qualities essential for the performance of jazz dance repertory. Course may be repeated for a total of 6 credits. Course content will be different each semester. Students will be required to attend certain dance events for this course; some may require a fee.

Prerequisites & Notes

Must be a dance major or minor; permission of instructor

Credits: 2

DANC 424 - Contemporary Partnering

This course investigates the techniques of Contact Improvisation to develop contemporary partnering. Students will be required to attend certain dance events for this course; some may require a fee.

Prerequisites & Notes

DANC 224

For Dance Majors and Minors only

Credits: 2

DANC 425 - Senior Capstone I: Dance Research

Advanced level research, writing, and discussions will lead to the development and presentation of the student's senior project. Readings and discussions on dance philosophy, aesthetics, leadership, and arts advocacy will be the basis of this course. Practical experiences in resume and grant writing, graduate school applications, interviews, and career planning will be covered.

Prerequisites & Notes

Senior Standing, DANC 323, 326, 350, 419, 420. In addition to these prerequisites, dance majors enrolled in Senior Synthesis must register for a minimum of 2 semester hours of dance technique during the semester in which they take Senior Synthesis.

Must be a Dance Major

Credits: 3

DANC 426 - Modern Dance Technique: Level V

This fifth level course is for the student who can demonstrate total integration of technique and performance, including sensitivity to aesthetic and theoretical concepts. Students will focus on the following: a continual refinement and advancement in the level and knowledge of technique, quality of performance and aesthetic concepts; a clear understanding of dance as a profession and demonstrated professionalism and maturity. Course may be repeated for a maximum of 6 credits. Course content will vary each semester. Students will be required to attend certain dance events for this course; some may require a fee.

Prerequisites & Notes

For Dance Majors and Minors only

Credits: 2

DANC 428 - Modern Dance Technique: Level VI

This sixth level modern dance course is for the student who can execute technique and performance at an advanced level and knows, understands, and can embody complex dance theory and concepts. This course is for the dancer who is at the pre-professional level. Course may be repeated for a maximum of 6 credits. Course content will vary each semester. Students will be required to attend certain dance events for this course; some may require a fee.

Prerequisites & Notes

For Dance Majors and Minors only; and permission of instructor.

Credits: 2

DANC 430 - BFA Capstone II: Performance, Choreography, and Entrepreneurship

This BFA capstone course will include advanced-level research, writing, and discussions, and will lead to the development, production, and presentation of the student's senior project. The course will include practical, theoretical, philosophical, and artistic resources applicable to a professional career in dance or related field, and include an emphasis on the University's Student Learning Outcomes.

Prerequisites & Notes

Prerequisite: DANC 425

Credits: 3

DANC 450 - Dance Internship

Supervised placement and research in an appropriate agency. For further information, contact the Department of Dance.

Students will be required to attend certain dance events for this course; some may require a fee.

Prerequisites & Notes

For Dance Majors and Minors only

Credits: 1 to 9

DANC 490 - Independent Study

Independent Study courses give students the opportunity to pursue research and/or studies that are not part of the university's traditional course offerings. Students work one on one or in small groups with faculty guidance and are typically required to submit a final paper or project as determined by the supervising professor.

Students will be required to attend certain dance events for this course; some may require a fee.

Credits: 1 to 3

DANC 495 - Workshop

A workshop is a program which is usually of short duration, narrow in scope, often non-traditional in content and format, and on a timely topic.

Students will be required to attend certain dance events for this course; some may require a fee.

Credits: 1 to 3

DANC 498 - Selected Topics

A **Selected Topics** course is a normal, departmental offering which is directly related to the discipline, but because of its specialized nature, may not be able to be offered on a yearly basis by the department.

Students will be required to attend certain dance events for this course; some may require a fee.

Prerequisites & Notes

Permission of the instructor

Credits: 1 to 3

DANC 499 - Dance Rehearsal & Production

This course provides dance majors and minors the opportunity to receive credit for the numerous hours spent in rehearsals and performances. Students will select specific activities and then develop a contract for completion of responsibilities and evaluation. Tasks may include choreographer, rehearsal assistant, rehearsal and performance as a dancer, publicity, or as a member of the technical support staff during performance (stage manager, running crew, usher, lighting). This course requires an audition and/or permission of the faculty member of record.

Prerequisites & Notes

For Dance Majors and Minors only

Credits: 1

ECON 105 - Economics of Social Issues

As an introductory course, it is intended to provide an understanding of how our economic system works. It examines the forces that determine what, how much and who obtains the outputs of the economy, and explains the issues behind current economic problems. A framework of building blocks from micro, macro, and international economics is developed to enable students to comprehend the differences among alternative solutions and to understand the implications of policy issues constantly confronting a mixed dynamic economy.

Credits: 3

ECON 105 - Economics of Social Issues

As an introductory course, it is intended to provide an understanding of how our economic system works. It examines the forces that determine what, how much and who obtains the outputs of the economy, and explains the issues behind current economic problems. A framework of building blocks from micro, macro, and international economics is developed to enable students to comprehend the differences among alternative solutions and to understand the implications of policy issues constantly confronting a mixed dynamic economy.

Credits: 3

ECON 139 - University Seminar

University Seminar serves as the entry point to the Slippery Rock University general education program. With its small seminar setting and strong faculty-student interaction, the course promotes intellectual inquiry, critical and creative thinking, and academic excellence. Through varied content, the course introduces students to academic discourse and information literacy while exploring topics such as diversity and inclusion and global awareness. This course will set students along the path to becoming engaged with issues and scholarship important to a 21st century education while they learn about themselves and their place in the world.

Credits: 3

ECON 190 - Experimental

A unique and specifically focused course within the general purview of a department which intends to offer it on a "one time only "basis and not as a permanent part of the department's curriculum.

Credits: 1 to 3

ECON 195 - Workshop

A workshop is a program which is usually of short duration, narrow in scope, often non-traditional in content and format, and on a timely topic.

Credits: 1 to 3

ECON 198 - Selected Topic

A **Selected Topics** course is a normal, departmental offering which is directly related to the discipline, but because of its specialized nature, may not be able to be offered on a yearly basis by the department.

Credits: 1 to 3

ECON 201 - Principles of Macroeconomics

Definition of economics; concepts and institutions; demand, supply and the price system; national income; employment and fiscal policy; monetary policy; economic stability and growth.

Credits: 3

ECON 202 - Principles of Microeconomics

Economics of the firm; resource allocation; price and output determination; market structure; current economic problems; international economics.

Credits: 3

ECON 211 - Real Estate Finance

The study of nature and scope of real estate, factors affecting demand and supply, property rights, title, deeds and title closing, sources of financing, real estate valuation, taxes, leveraged buy-outs, and real estate investment decision.

Credits: 3

ECON 219 - Business Statistics

Probability and statistics in a business environment encompassing descriptive statistics, probability theory, hypothesis testing, linear regression and correlation. Prerequisites: Algebraic proficiency and microcomputer proficiency. Cross-linked as MGMT 219.

Credits: 3

ECON 290 - Experimental

A unique and specifically focused course within the general purview of a department which intends to offer it on a "one time only "basis and not as a permanent part of the department's curriculum.

Credits: 1 to 3

ECON 295 - Workshop

A workshop is a program which is usually of short duration, narrow in scope, often non-traditional in content and format, and on a timely topic.

Credits: 1 to 3

ECON 298 - Selected Topic

A **Selected Topics** course is a normal, departmental offering which is directly related to the discipline, but because of its specialized nature, may not be able to be offered on a yearly basis by the department.

Credits: 1 to 3

ECON 301 - Macroeconomic Analysis

Determination of national income and employment. National income accounts as measures of aggregate economic behavior. Analysis of income stability, unemployment, inflation and growth.

Prerequisites & Notes

Econ 201, 202

Credits: 3

ECON 302 - Microeconomic Analysis

Intermediate price theory including theories of demand, supply, production, resource allocation, market structure, general equilibrium and risk analysis.

Prerequisites & Notes

ECON 201, 202

Credits: 3

ECON 304 - Money and Banking

Emphasis is upon monetary policy, how it is implemented, the theories on which it is based, and the implication of this policy on our economy.

Prerequisites & Notes

ECON 201

Credits: 3

ECON 312 - Critical Choices in Health Care Policy

This course analyzes the health care sector. It presents reasons for the growth in health care expenses, assesses how and why they are likely to grow, and details policy options that confront health care administrators, consumers, employers, and government officials.

Prerequisites & Notes

ECON 202

Credits: 3

ECON 315 - Economics of Sustainable Development

Economic causes and effects of pollution are discussed along with the issue of sustainable economic development. Government policy with respect to the environment and renewable energy will be surveyed. The framework connection between sustainability and the core functions of business for profit will be presented.

Prerequisites & Notes

ECON 202

Credits: 3

ECON 318 - Intermediate Statistical Analysis

Statistical analysis encompassing multiple regression and correlation, ANOVA (simple and multivariate), goodness of fit, statistical decision analysis, and advanced forecasting techniques.

Prerequisites & Notes

ECON 219 or MGMT 219 or BUSA 219 or permission of the instructor

Credits: 3

ECON 319 - Business Analytics II

This course introduces various methods on how to analyze large sets of business data in order to uncover potential business opportunities. Students will learn both predictive analytics and prescriptive analytics. The predictive analytics include trend analysis, forecasting techniques, data mining, and spreadsheet modeling. Prescriptive analytics covers linear optimization and decision analysis. Business software such as productivity software, data visualization, and business intelligence software will be heavily used as a main focus of learning.

Prerequisites & Notes

Prerequisites: (ECON 219 or MGMT 219 or STAT 152) and (MATH 113 or MATH 115 or MATH 117 or MATH 118 or MATH 122 or MATH 123 or MATH125 or MATH 131 or MATH 210 or MATH 225)

Credits: 3

ECON 326 - International Economics

Alternative exchange rate systems, commercial trade policies, balance of payments, adjustment mechanisms and the role of international financial organizations.

Prerequisites & Notes

ECON 201, 202

Credits: 3

ECON 360 - Labor Economics

An investigation of labor markets and the effect of institutional forces on employment, wage determination, stability, and the availability of labor.

Prerequisites & Notes

ECON 202

Credits: 3

ECON 390 - Experimental

A unique and specifically focused course within the general purview of a department which intends to offer it on a "one time only "basis and not as a permanent part of the department's curriculum.

Credits: 1 to 3

ECON 395 - Workshop

A workshop is a program which is usually of short duration, narrow in scope, often non-traditional in content and format, and on a timely topic.

Credits: 1 to 3

ECON 398 - Selected Topic

A **Selected Topics** course is a normal, departmental offering which is directly related to the discipline, but because of its specialized nature, may not be able to be offered on a yearly basis by the department.

Credits: 1 to 3

ECON 450 - Internship

Supervised placement and research in selected public and private agencies at appropriate institutions.

Prerequisites & Notes

Application and permission of the instructor.

ECON 201 and ECON 202

Credits: 1 to 12

ECON 490 - Independent Study

In-depth reading and/or research in an area of particular interest to the student, with the guidance of a faculty member.

Prerequisites: 12 hours of major courses, application, and permission of the instructor, departmental chairperson, and dean of the college where the study will be conducted.

Independent Study courses give students the opportunity to pursue research and/or studies that are not part of the university's traditional course offerings. Students work one on one or in small groups with faculty guidance and are typically required to submit a final paper or project as determined by the supervising professor.

Credits: 1 to 3

ECON 495 - Workshop

A workshop is a program which is usually of short duration, narrow in scope, often non-traditional in content and format, and on a timely topic.

Credits: 1 to 3

ECON 498 - Selected Topic

A **Selected Topics** course is a normal, departmental offering which is directly related to the discipline, but because of its specialized nature, may not be able to be offered on a yearly basis by the department.

Credits: 1 to 3

EGEO 100 - Environmental Geology

The course examines problems of mineral, energy and water resources, waste disposal, soils and health, geologic hazards, and land use. Resources are the common property of all people. Sustainable use of resources is poised by equitable distribution of cost and benefits among diverse peoples.

Credits: 3

EGEO 101 - Physical Geology

Emphasis is placed upon those processes acting to create earth materials, landforms, and structures in and on the earth.

Credits: 3

EGEO 110 - Environmental Geology Lab

Complement to EGEO 100; laboratory study of geologic hazards and geologic resources with a focus on local environmental issues. Course may require a weekend field trip.

Prerequisites & Notes

EGEO 100 must be taken prior to or concurrently

Credits: 1

EGEO 111 - Physical Geology Lab

Complement to EGEO 101; laboratory studies of minerals, rocks and maps illustrate the concepts of EGEO 101.

Prerequisites & Notes

EGEO 101 must be taken prior to or concurrently

Credits: 1

EGEO 121 - Meteorology/Lab

Introduction to principles controlling weather and their effect on people and the environment. Includes lab.

Credits: 4

EGEO 131 - Oceanography

Introduction to the physical, chemical and biological aspects of the marine environment.

Credits: 3

EGEO 139 - University Seminar

University Seminar serves as the entry point to the Slippery Rock University general education program. With its small seminar setting and strong faculty-student interaction, the course promotes intellectual inquiry, critical and creative thinking, and academic excellence. Through varied content, the course introduces students to academic discourse and information literacy while exploring topics such as diversity and inclusion and global awareness. This course will set students along the path to becoming engaged with issues and scholarship important to a 21st century education while they learn about themselves and their place in the world.

Credits: 3

EGEO 190 - Experimental

A unique and specifically focused course within the general purview of a department which intends to offer it on a "one time only "basis and not as a permanent part of the department's curriculum.

Credits: 1 to 3

EGEO 195 - Workshop

A workshop is a program which is usually of short duration, narrow in scope, often non-traditional in content and format, and on a timely topic.

Credits: 1 to 3

EGEO 198 - Selected Topic

A **Selected Topics** course is a normal, departmental offering which is directly related to the discipline, but because of its specialized nature, may not be able to be offered on a yearly basis by the department.

Credits: 1 to 3

EGEO 201 - Earth Materials and Processes/Lab

Overview of the composition and structure of Earth. Introduction to fundamental physical and chemical Earth processes. Identification of rocks and minerals based on observation and study of physical properties. Includes lab.

Prerequisites & Notes

Credits: 4

EGEO 202 - Earth History/Lab

The evolutionary history of the earth and its life. Two Saturday field trips required.

Prerequisites & Notes

EGEO 201

Credits: 4

EGEO 203 - Quantitative Methods

Review of mathematical techniques and principles. Training in the application of quantitative methods to the understanding and analysis of geological and environmental problems. Students will apply a variety of mathematical techniques to a range of geological and environmental problems. Emphasis will be placed on practical applications of quantitative methodology and the development and use of spreadsheets to manage, analyze, and present data sets.

Prerequisites & Notes

EGEO 202 and (MATH 125 or MATH 225 or MATH 230)

Credits: 3

EGEO 221 - Weather and Climate Forecasting/Lab

An analysis and use of local and regional computer-collected surface and upper air weather data to forecast weather. A study of past records of climate as clues to future changes. Includes lab.

Prerequisites & Notes

EGEO 121

Credits: 3

EGEO 231 - Aerial Photography Interpretation/Lab

Introduction to photogrammetry, remote sensing, and interpretation of geologic and cultural imagery.

Prerequisites & Notes

EGEO 101 or 201 or permission of the instructor

Credits: 3

EGEO 251 - Aviation Meteorology/Lab

This course is a study of weather conditions commonly encountered in aviation. The subject is treated from the viewpoint of the forecaster and the pilot. Includes lab.

Prerequisites & Notes

EGEO 121

Credits: 3

EGEO 271 - Geotechniques: Lab

Training in laboratory techniques and instruments for geological, geophysical and environmental surveys.

Credits: 2

EGEO 272 - Introduction to Georeports/Lab

Training in the grammatical and stylistic conventions of technical writing in environmental, geoscientific and geographical disciplines.

Prerequisites & Notes

ENGL 102 or permission of instructor

Credits: 1

EGEO 290 - Experimental

A unique and specifically focused course within the general purview of a department which intends to offer it on a "one time only "basis and not as a permanent part of the department's curriculum.

Credits: 1 to 3

EGEO 295 - Workshop

A workshop is a program which is usually of short duration, narrow in scope, often non-traditional in content and format, and on a timely topic.

Credits: 1 to 3

EGEO 298 - Selected Topic

A **Selected Topics** course is a normal, departmental offering which is directly related to the discipline, but because of its specialized nature, may not be able to be offered on a yearly basis by the department.

Credits: 1 to 3

EGEO 303 - Paleontology/Lab

An introduction to the fossil record and evolution of life through earth history, including the nature of science, marine and land dwelling organisms and basic theories of evolution and extinction of organisms.

Prerequisites & Notes

EGEO 201 and EGEO 202

Credits: 4

EGEO 323 - Planetary Geology

Systematic study of geological processes that have operated on the planets, natural satellites, and minor bodies in the Solar System. Course will cover solar system formation and evolution, planetary interiors, surficial processes, the structure and history of individual planetary bodies. Quantitative techniques will be used to examine data from current and historic exploration missions.

Prerequisites & Notes

EGEO 202 and EGEO 203

Credits: 3

EGEO 327 - Structural Geology/Lab

Origin and description of primary and secondary structures of sedimentary, igneous, and metamorphic rocks.

Prerequisites & Notes

EGEO 201; and
(EGEO 202 or PNGE 201)

Credits: 4

EGEO 328 - Plate Tectonics

Plate tectonics is the study of the motion of the lithosphere and deformation of the earth's crust on a regional scale. The course will evaluate the plate tectonic paradigm in terms of its historical evolution and modern application to understanding earth processes. The course examines a broad range of tectonic phenomena and considers the specific geological and geophysical processes involved. Topics covered include the uplift, deformation and metamorphism of mountain belts, the formation of ocean basins, the subsidence of sedimentary basins, the collision of continents and volcanic arcs, earthquake seismology of plate boundaries, magmatism related to plate processes, and tectonics and landscapes.

Prerequisites & Notes

EGEO 202 and EGEO 212

Credits: 3

EGEO 340 - Air Pollution Meteorology/Lab

A study of meteorological parameters of air pollution concentration, dispersion, and removal. Includes air pollution forecasting and modeling.

Prerequisites & Notes

EGEO 121

Credits: 3

EGEO 341 - Geomorphology/Lab

A study of landforms, their origin and relation to geologic processes, structure, and climate.

Prerequisites & Notes

EGEO 201 or GES 150

Credits: 3

EGEO 342 - Glacial Geology/Lab

A study of erosional and depositional landforms left by glaciers and their meltwaters. Glacial landforms and soils are examined on maps, air photos and in the field.

Prerequisites & Notes

EGEO 202 or GES 150

Credits: 3

EGEO 351 - Mineralogy/Lab

Systematic crystallography, crystal chemistry, physics, genesis, occurrence, and identification of minerals.

Prerequisites & Notes

EGEO 201 and CHEM 108 and CHEM 112

Credits: 4

EGEO 352 - Petrology/Lab

Classification, occurrence, and genesis of igneous, sedimentary and metamorphic rocks. Identification using hand specimens and polarizing microscope (thin sections).

Prerequisites & Notes

EGEO 351

Credits: 4

EGEO 358 - Introduction to Geophysics/Lab

An introduction to geophysics and geophysical methods and their use in the study of Earth's interior. Emphasis will be placed on illuminating subsurface geological features and applications in fields such as groundwater studies, development of energy resources and environmental studies.

Prerequisites & Notes

Grade of C or higher in PHYS 211, MATH 225, and EGEO 201

Credits: 3

EGEO 360 - Introduction to Hydrology/Lab

A study of the occurrence and movement of water and human's effect on this basic resource.

Prerequisites & Notes

EGEO 101 and 201 or permission of the instructor

Credits: 3

EGEO 362 - Stratigraphy/Lab

Principles of stratigraphy, stratigraphic mapping, and graphic techniques used in stratigraphic interpretation. Two Saturday field trips may be required.

Prerequisites & Notes

EGEO 201 and EGEO 202

Credits: 4

EGEO 368 - Women in Science

This course will explore the issues of women in science. Specifically it will address the issues of gender in relation to the theory and practice of science and technology. The course content will use case studies to explore women that have made significant contributions to science despite barriers limiting their access to education and professional organizations. The content will cover topics including how the development of educational systems and professions affected women over the centuries, how scientific approaches have evolved, and how women meet challenges in today's scientific community. The case studies will provide students with the opportunity to analyze and synthesize the information presented into an understanding on the evolution of scientific thought and women's roles in science.

Credits: 3

EGEO 390 - Experimental

A unique and specifically focused course within the general purview of a department which intends to offer it on a "one time only "basis and not as a permanent part of the department's curriculum.

Credits: 1 to 3

EGEO 395 - Workshop

A workshop is a program which is usually of short duration, narrow in scope, often non-traditional in content and format, and on a timely topic.

Credits: 1 to 3

EGEO 398 - Selected Topics

A **Selected Topics** course is a normal, departmental offering which is directly related to the discipline, but because of its specialized nature, may not be able to be offered on a yearly basis by the department.

Credits: 1 to 3

EGEO 399 - Field Camp

Field Camp is final requirement and is usually conducted at a field study location.

Prerequisites & Notes

A minimum of 4 credits of EGEO 399 is required within the major

Credits: 1 to 9

EGEO 448 - X-ray Spectrometry/Lab

Concepts of x-ray production and interaction with crystalline materials. Application of x-ray diffraction methods for identification of minerals, and x-ray fluorescence techniques for chemical analysis. One lecture and one two-hour laboratory per week.

Prerequisites & Notes

CHEM 107 and EGEO 201

Credits: 3

EGEO 450 - Internship

Supervised placement and research in selected public and private agencies.

Prerequisites & Notes

Permission of chairperson

Credits: 1 to 12

EGEO 451 - Geochemistry/Lab

Basic thermodynamics applied to the geochemistry of natural systems. The course will focus on low temperature inorganic reactions that are important for the environmental fate and transport of contaminants in the environment. The course will require the use of computer spreadsheets and models to solve geochemical problems covered in lecture. Three hours of lecture and one hour of computer lab.

Prerequisites & Notes

CHEM 108, 112 and EGEO 201 or equivalent

Credits: 4

EGEO 453 - Geotechniques: Geochemistry/Lab

Laboratory and field experiments to study the geochemistry of local environmental systems. Field sampling, in-field and laboratory analysis, and construction of experimental systems will be conducted. Field trips for sample collection will occur weekly.

Prerequisites & Notes

EGEO 451 or permission of the instructor

Credits: 1

EGEO 458 - Geophysical Field Methods/Lab

An introduction to seismic field methods and their use in the study of Earth's interior. Emphasis will be placed on the use of seismic methods to characterize subsurface geological features and applications in fields such as groundwater studies, development of energy resources, and environmental studies.

Prerequisites & Notes

EGEO 358 with a grade of C or better

Credits: 3

EGEO 460 - Hydrogeology/Lab

A study of the quantitative and qualitative interrelationships of geologic materials and processes with ground water.

Prerequisites & Notes

EGEO 360 or permission of the instructor

Credits: 3

EGEO 469 - Field Investigations in the Geosciences

This course will provide students with the opportunity to practice the nature of fieldwork by observing, interpreting, collecting data and analyzing physical and human landscapes, and the natural, cultural and economic forces that are shaping them.

Course is cross-listed as GES 469

Credits: 1 to 3

EGEO 476 - Geotechniques: Geophysics/Lab

Lab and field techniques.

Prerequisites & Notes

EGE 460 and permission of the instructor

Credits: 1

EGEO 481 - Geologic Map Interpretation/Lab

A seminar for advanced undergraduates in whom students and staff participate in map interpretation. One two-hour lab per week.

Prerequisites & Notes

Senior standing or permission of the instructor

Credits: 1

EGEO 482 - Senior Seminar

A seminar for advanced undergraduates in which students and staff participate in discussions concerning classical and current geological problems.

Prerequisites & Notes

Senior standing or permission of the instructor

Credits: 1

EGEO 490 - Independent Study

Independent work on a topic in the earth sciences selected by the student with permission and advice of the instructor. Independent Study courses give students the opportunity to pursue research and/or studies that are not part of the university's traditional course offerings. Students work one on one or in small groups with faculty guidance and are typically required to submit a final paper or project as determined by the supervising professor.

Prerequisites & Notes

Permission of the instructor, departmental chairperson and dean of the college where the study will be conducted

Credits: 1 to 3

EGEO 495 - Workshop

A workshop is a program which is usually of short duration, narrow in scope, often non-traditional in content and format, and on a timely topic.

Credits: 1 to 3

EGEO 498 - Selected Topics

The in-depth examination of a specific topic. The topic selected and its treatment depend on the instructor.

A **Selected Topics** course is a normal, departmental offering which is directly related to the discipline, but because of its specialized nature, may not be able to be offered on a yearly basis by the department.

Credits: 1 to 3

EGEO 590 - Experimental

A unique and specifically focused course within the general purview of a department which intends to offer it on a "one time only" basis and not as a permanent part of the department's curriculum.

Credits: 3

EGEO 595 - Workshop

A workshop is a program which is usually of short duration, narrow in scope, often non-traditional in content and format, and on a timely topic.

Credits: 3

EGEO 598 - Selected Topic

A **Selected Topics** course is a normal, departmental offering which is directly related to the discipline, but because of its specialized nature, may not be able to be offered on a yearly basis by the department.

Credits: 3

ELEC 100 - Early Childhood Education Theory & Practice

This course is designed to introduce students to early childhood education with emphasis on historical and contemporary perspectives, theories, practice, and current trends and developments. Early childhood environments for children from birth through nine years of age will be studied and various curricula materials will be reviewed. Examination of the student's personal qualities in relationship to expectations of the field is addressed throughout the course (COE assessment of dispositions). Students will be exposed to children within a variety of early childhood settings via videotaped observations of children and classrooms.

Prerequisites & Notes

None

Credits: 3

ELEC 139 - University Seminar

University Seminar serves as the entry point to the Slippery Rock University general education program. With its small seminar setting and strong faculty-student interaction, the course promotes intellectual inquiry, critical and creative thinking, and academic excellence. Through varied content, the course introduces students to academic discourse and information literacy while exploring topics such as diversity and inclusion and global awareness. This course will set students along the path to becoming engaged with issues and scholarship important to a 21st century education while they learn about themselves and their place in the world.

Credits: 3

ELEC 190 - Experimental

A unique and specifically focused course within the general purview of a department which intends to offer it on a "one time only" basis and not as a permanent part of the department's curriculum.

Credits: 1 to 3

ELEC 195 - Workshop

A workshop is a program which is usually of short duration, narrow in scope, often non-traditional in content and format, and on a timely topic.

Credits: 1 to 3

ELEC 198 - Selected Topic

A **Selected Topics** course is a normal, departmental offering which is directly related to the discipline, but because of its specialized nature, may not be able to be offered on a yearly basis by the department.

Credits: 1 to 3

ELEC 200 - Child Development Typical

This course will provide a critical overview of key aspects of child development (physical, psychosocial, and cognitive) from theories and research that span conception to the early school years (birth to age 9). Important contexts that shape children's development will also be a major focus of this course, such as family, school, community, socioeconomic, and policy influences.

Prerequisites & Notes

None

Credits: 3

ELEC 230 - Field-Based Child Development Typical

Candidates will connect theory to practice in this course. Both typical and atypical child development will be studied in-depth through observations in a variety of education and education-related settings for children birth through grade four.

Prerequisites & Notes

Prerequisites: ELEC100 and ELEC200

Co-Requisites: ELEC281 and ELEC237

Credits: 3

ELEC 237 - ELL Strategies and Practice for Early Childhood Education

This course will focus on the development of competencies and skills needed to effectively teach students whose first language is not English so that teacher candidates can accommodate and adapt instruction and assessments for Pre-K through Grade 4 English Language Learners (ELLs). In addition, this course is designed to provide pre-service early childhood educators with the scientific study of psycholinguistic phenomena in the study of language acquisition, to understand development of typical and atypical oral language in young children from birth to age 9, and to understand cultural and familial influences on language and literacy.

Prerequisites & Notes

Prerequisites: ELEC100 and ELEC200

Co-Requisites: ELEC230 and ELEC281

Credits: 3

ELEC 238 - Literacy Practices for the Emergent Learner(PreK-grade 1)

Through a blend of theory and practice, this course explores research-based instruction for the emergent literacy learner (PreK-grade 1), including the relationship between language development and literacy, instructional activities to help children become competent users of oral language, reading and writing processes, creation of a literate environment, and cultural and familial influences on language and literacy.

Prerequisites & Notes

Prerequisites: ELEC 100 AND ELEC 200

Co-requisite: ELEC 285

Credits: 3

ELEC 281 - Family and Community Diversity and Partnerships

This course is designed to acquaint the teacher candidate in early childhood education to the theories, practices, skills, and knowledge of home, school, and community relationships, building towards home and school partnerships. The focus of this course is developing a thorough understanding of diverse contexts and ethnicities that helps educators of young children strengthen the bonds between home, school and community.

Prerequisites & Notes

Prerequisites: ELEC100 and ELEC200

Co-requisite: ELEC230 and ELEC237

Credits: 3

ELEC 285 - Integrating Creative Expression through the Arts

This course will identify basic elements, principals, related concepts, and vocabulary of the creative and performing arts. The creative arts exist as vehicles through which we can communicate the very essence of expressive language. Students will be introduced to various media, lesson planning, and ways of integrating the arts into planning academic and multicultural curricula for PreK-4 classrooms. This course will serve as a foundation for integrating arts across the curriculum.

Prerequisites & Notes

ELEC100 and ELEC200; Co-requisite: ELEC 238

Credits: 3

ELEC 288 - Children's Literature

This course introduces candidates to the values of children's literature and the wide range of genre available for enhancing the development and learning of children. Course content includes identifying and selecting outstanding literature for literacy content, children's needs and interests, multicultural perspectives, and curriculum enrichment. A field component includes the opportunity for candidates to implement strategies for the creative presentation of literature and the stimulation of creative responses by school-aged children.

Prerequisites & Notes

Prerequisite: Sophomore Standing; Corequisite: ELEC 281.

Credits: 3

ELEC 290 - Experimental

A unique and specifically focused course within the general purview of a department which intends to offer it on a "one time only "basis and not as a permanent part of the department's curriculum.

Credits: 1 to 3

ELEC 295 - Workshop

A workshop is a program which is usually of short duration, narrow in scope, often non-traditional in content and format, and on a timely topic.

Credits: 1 to 3

ELEC 298 - Selected Topic

A **Selected Topics** course is a normal, departmental offering which is directly related to the discipline, but because of its specialized nature, may not be able to be offered on a yearly basis by the department.

Credits: 1 to 3

ELEC 301 - Math/Science Teaching Lab

Provides students with a myriad of opportunities to: identify and develop basic teaching skills, design and implement math and science lessons for peers and school-aged children, and reflect/analyze lessons in light of science and math education research findings. Throughout the course, candidates will have the opportunity to actually experience classroom teaching when possible.

Prerequisites & Notes

Admission to the College of Education; ELEC 281, 288; Co-requisites ELEC 342, 362.

NOTE: Admission to and retention in the teacher education program are prerequisites for teacher education coursework. Minimum overall GPA, professional conduct standards, and major GPA prerequisites also apply; these are specified in the Teacher Education Policy Manual. Details are available in the departmental office or from the student's advisor.

Credits: 1

ELEC 306 - Early Childhood Education I

Research, history, philosophy, current trends and observations with emphasis on the nature and nurture of the young child from birth through third grade.

Prerequisites & Notes

Minimum overall GPA, professional conduct standards, and major GPA prerequisites may apply; details are available in the department office or from the student's advisor.

Credits: 3

ELEC 308 - Folk Literature and Storytelling

Combines a study of traditional literature with practice in the best methods of presenting it orally. Oral presentations include a preschool story hour, folk tale, and myth or literary fairy tale. The course also emphasizes the importance of puppetry in education and recreation.

Prerequisites & Notes

NOTE: Admission to and retention in the teacher education program are prerequisites for teacher education coursework. Minimum overall GPA, professional conduct standards, and major GPA prerequisites also apply; these are specified in the Teacher Education Policy Manual. Details are available in the departmental office or from the student's advisor.

Credits: 3

ELEC 311 - Mathematics & Literacy Teaching Lab Pre K - 4

This course provides teacher education candidates with an opportunity to observe, assist, and teach mathematics and literacy lessons in a pre-school or early childhood grade level setting. Through this lab, candidates identify and develop basic teaching skills, design and implement mathematics and literacy lessons for PK-Grade 4 children, and reflect and analyze on lessons taught, based on assessment data, research and philosophies examined concurrently in the mathematics and literacy methods courses. Candidates will also develop an appreciation for the many tasks teachers perform daily.

Prerequisites & Notes

Admission to Teacher Candidacy

Co requisites: ELEC 316, 330, 340 and SPED 325

Credits: 1

ELEC 316 - Developmental Formal & Informal Assessment

A study of assessment for children from birth to Grade 4. Both formal and informal instruments will be discussed with the emphasis on tools that can be used by teachers of young children to inform developmentally appropriate instruction and practices on a daily basis. Considerations in choosing, administering, and reporting results of assessments will also be addressed.

Prerequisites & Notes

Admission to Teacher Candidacy;

Co requisites: ELEC 311, 330, and 340, SPED 325

Credits: 3

ELEC 317 - Child and Family Development in Early Childhood

This course is a theoretical, in-depth examination of physical, intellectual, social-emotional, language and family development from birth through age 8, which builds upon previous Human Development courses. Development is viewed as occurring within a family and a culture, not in isolation. Emphasis is placed upon the connections between the theoretical and the practical.

Prerequisites & Notes

CDEV 248 and ELEC 306.

NOTE: Minimum overall GPA, professional conduct standards, and major GPA prerequisites also apply; these are specified in the Teacher Education Policy Manual. Details are available in the departmental office or from the student's advisor.

Credits: 3

ELEC 320 - Elementary Field Experience

Candidates enroll as part of the Professional Block in Elementary Education. This course involves an in-depth teaching experience in an elementary classroom in which opportunities are provided for the application of content knowledge, pedagogical skills, and the assessment of children's learning. Grading P/NC/Fail.

Prerequisites & Notes

Successful completion of block 2 in elementary education; Co-requisites: ELEC 332. NOTE: Admission to and retention in the teacher education program are prerequisites for teacher education coursework. Minimum overall GPA, professional conduct standards, and major GPA prerequisites also apply; these are specified in the Teacher Education Policy Manual. Details are available in the departmental office or from the student's advisor.

Credits: 3

ELEC 324 - Methods for Teaching English as a Second Language and Bilingual Education

A course designed to acquaint the prospective teacher at any level with the methodology used to teach English to native speakers of other languages and to acquaint students with the specialized procedures used when teaching in bilingual classrooms (any two languages) on any level.

Prerequisites & Notes

One year of college language study or placement in 201. NOTE: Admission to and retention in the teacher education program are prerequisites for teacher education coursework. Minimum overall GPA, professional conduct standards, and major GPA prerequisites also apply; these are specified in the Teacher Education Policy Manual. Details are available in the departmental office or from the student's advisor.

Prerequisites: ELEC 200 and (CDEV 248 or CDEV 342)

Credits: 3

ELEC 327 - Social/Cultural Studies in Early Childhood Education

This course is a multi-dimensional methods course which integrates background knowledge from the social sciences, natural sciences, and the humanities and fine arts. It focuses on an experiential approach to facilitating young children's growth and development, with an emphasis on human relationships. A multi-cultural perspective is fostered.

Prerequisites & Notes

ELEC 306 and 2.5 GPA. Minimum overall GPA, professional conduct standards, and major GPA prerequisites also apply; these are specified in the Teacher Education Policy Manual. Details are available in the departmental office or from the student's advisor.

Credits: 3

ELEC 328 - Curriculum and Assessment in ESL Education

This course prepares students seeking Pennsylvania certification in English as a second language (K-12) with key concepts related to curriculum development and assessment for students learning English as a second language. Topics include meeting ESL curriculum standards, novel and accurate assessment procedures, culturally biased testing, assessment suitability criteria, and culturally appropriate testing situations. The course investigates assessment within the context of ESL curriculum design, implementation, and program evaluation. Finally, students will come to terms with the process of evaluating language minority students in relation to diagnosis, placement, formal and informal assessment, exiting, and monitoring of student progress.

Prerequisites & Notes

NOTE: Admission to and retention in the teacher education program are prerequisites for teacher education coursework. Minimum overall GPA, professional conduct standards, and major GPA prerequisites also apply; these are specified in the Teacher Education Policy Manual. Details are available in the departmental office or from the student's advisor.

Credits: 3

ELEC 330 - Literacy Practices for the Developing Learner, Grades 2 - 4

Candidates will acquire a thorough understanding of literacy development (ages 5 - 9) as revealed in learning and motivation theories. Candidates will be prepared to use a variety of instructional strategies and materials selectively, appropriately, and flexibly. Candidates will be prepared to use multiple strategies for developing students' word/concept knowledge and word analysis skills in addition to understanding how word meaning and fluency support comprehension. Candidates will be able to teach multiple comprehension strategies that support readers in constructing meaning from text, both literary and informational, and in monitoring their comprehension. Candidates will gain strategies for infusing writing and the conventions of writing into literacy learning. Candidates will acquire appropriate assessment techniques to support responsive instructional decision making and reflection. Competencies and skills needed to effectively support students whose first language is not English will be central to this course.

Prerequisites & Notes

Admission to Teacher Candidacy

Co requisites: ELEC 316, 311, 340, SPED 325

Credits: 3

ELEC 332 - The Teaching of Elementary Reading

Candidates will be introduced, through theory and practice, to a variety of strategies for teaching elementary reading. Candidates will become aware of ways to assess reading progress and ways to support children as they develop as readers. Candidates will also become familiar with materials used in the classroom to support literacy.

Prerequisites & Notes

ELEC 301, 342, 362; Co-requisites: ELEC 320. NOTE: Admission to and retention in the teacher education program are prerequisites for teacher education coursework. Minimum overall GPA, professional conduct standards, and major GPA prerequisites also apply; these are specified in the Teacher Education Policy Manual. Details are available in the departmental office or from the student's advisor.

Credits: 3

ELEC 340 - Mathematics Methods and Strategies for PRE K - 4 Teachers

This course is designed to provide pre-service teachers with the pedagogy and materials necessary for teaching early childhood mathematics. This course addresses development and instruction in play-based and problem-based

mathematics in pre-K to grade 4 settings. Included are methods, materials, and research findings related to teaching of mathematics. Questions that provide the structure for this course are: What is the nature of mathematics (what is mathematics and what does it mean to do mathematics)? How do children learn mathematics? How do we as teachers help children learn mathematics?

Prerequisites & Notes

Admission to Teacher Candidacy

Co requisites: ELEC 316, 311, 330, SPED 325

Credits: 3

ELEC 342 - The Teaching of Elementary Mathematics

The various processes and operations needed to effectively teach mathematics in the elementary school are carefully analyzed. Candidates recognize and can address the mathematical concepts and the potential misconceptions and misunderstandings of these concepts by school-aged children.

Prerequisites & Notes

MATH 210 and 310 or equivalent. Co-requisites: ELEC 301 and 362. Co- or pre-requisite SEFE 270. NOTE:

Admission to and retention in the teacher education program are prerequisites for teacher education coursework. Minimum overall GPA, professional conduct standards, and major GPA prerequisites also apply; these are specified in the Teacher Education handbook.

Credits: 3

ELEC 347 - Modern Primary Programs

A survey of philosophy, techniques and methodology used in educating children through continuous progress in an ungraded primary school.

Prerequisites & Notes

ELEC 306 and 2.5 GPA.

Minimum overall GPA, professional conduct standards, and major GPA prerequisites also apply; these are specified in the Teacher Education Policy Manual. Details are available in the departmental office or from the student's advisor.

Credits: 3

ELEC 348 - Leadership, Advocacy & Program Development

This course will focus on leadership, advocacy and program development for teacher candidates preparing to work with children Pre-K to Grade 4. Focus will be on the design, development, and evaluation of early childhood programs, including theory, paradigms and models, policy in the program development process, and the use of technology in program development. In addition, this course will include theory, research and practice in early childhood as a foundation for leadership in the field and advocacy on behalf of young children, families, communities, and the early childhood profession. An examination of current issues in the field and strategies for articulating positions and for working toward change will also be addressed.

Prerequisites & Notes

ADMISSION TO TEACHER CANDIDACY AND JUNIOR STANDING

Credits: 3

ELEC 352 - The Teaching of Language Arts

Candidates will be introduced, through theory and practice, to a variety of strategies for teaching elementary language arts. They will become familiar with the six components of language arts: reading, writing, speaking, listening, visually representing, and viewing. Candidates will learn strategies for teaching these components and integrating them into the classroom curriculum. Candidates will also become familiar with assessment tools for language arts.

Prerequisites & Notes

ELEC 301, 342, 362.

NOTE: Admission to and retention in the teacher education program are prerequisites for teacher education coursework. Minimum overall GPA, professional conduct standards, and major GPA prerequisites also apply; these are specified in the Teacher Education Policy Manual. Details are available in the departmental office or from the student's advisor.

Credits: 3

ELEC 362 - The Teaching of Elementary Science

Candidates will learn numerous strategies which engage students in the science inquiry process by connecting scientific understanding and contemporary teaching and assessment practices. Locating and adapting appropriate activity-based science lessons are important components of this course.

Prerequisites & Notes

Two science courses, one with related laboratory; Co-requisites: ELEC 301, 342. NOTE: Admission to and retention in the teacher education program are prerequisites for teacher education coursework. Minimum overall GPA, professional conduct standards.

Credits: 3

ELEC 372 - The Teaching of Elementary Social Studies

Candidates in this course will explore the social studies curriculum, including its organization; analyze methods of teaching, objectives, and materials; and discuss evaluation/assessment techniques. Study focuses on best practice classroom applications and the relationship between instruction and student learning outcome. Field experiences included.

Prerequisites & Notes

ELEC 301, 342, 362.

NOTE: Admission to and retention in the teacher education program are prerequisites for teacher education coursework. Minimum overall GPA, professional conduct standards, and major GPA prerequisites also apply; these are specified in the Teacher Education Policy Manual. Details are available in the departmental office or from the student's advisor.

Credits: 3

ELEC 382 - Literacy Assessment

A study of literacy assessment techniques designed to support the elementary teacher in designing a supportive literacy environment and effective literacy instruction for all students.

Prerequisites & Notes

ELEC 332. The Teaching of Elementary Reading. Note: Admission to and retention in the teacher education program

are prerequisites for teacher education coursework: Minimum over all GPA, professional dispositions, and major GPA prerequisites also apply. These are specified in the Teacher Education Policy Manual.

Credits: 3

ELEC 385 - Creativity

An interdisciplinary approach to child-centered teaching through creative instructional materials, drama, music, and a variety of art media.

Prerequisites & Notes

CDEV 342.

Minimum overall GPA, professional conduct standards, and major GPA prerequisites also apply; these are specified in the Teacher Education Policy Manual. Details are available in the departmental office or from the student's advisor.

Credits: 3

ELEC 390 - Experimental

A unique and specifically focused course within the general purview of a department which intends to offer it on a "one time only" basis and not as a permanent part of the department's curriculum.

Prerequisites & Notes

NOTE: Admission to and retention in the teacher education program are prerequisites for teacher education coursework. Minimum overall GPA, professional conduct standards, and major GPA prerequisites also apply; these are specified in the Teacher Education

Credits: 0

ELEC 395 - Workshop

A workshop is a program which is usually of short duration, narrow in scope, often non-traditional in content and format, and on a timely topic.

Credits: 1 to 3

ELEC 397 - Early Childhood Education II

Curriculum, materials, audio-visual and other aids and their implementation in various early childhood learning situations with full articulation of such programs with the primary grades.

Prerequisites & Notes

ELEC 306.

NOTE: Admission to and retention in the teacher education program are prerequisites for teacher education coursework. Minimum overall GPA, professional conduct standards, and major GPA prerequisites also apply; these are specified in the Teacher Education Policy Manual. Details are available in the departmental office or from the student's

advisor.

Credits: 3

ELEC 398 - Selected Topic

A **Selected Topics** course is a normal, departmental offering which is directly related to the discipline, but because of its specialized nature, may not be able to be offered on a yearly basis by the department.

Credits: 1 to 3

ELEC 405 - Overview of Global Education & Issues

The course focuses on international education and developing awareness and skills needed to teach in a culturally responsive classroom. Educational systems from various countries will be compared and contrasted. The Programme for International Student Assessment (PISA) will be explored to determine the possible pros and cons of this assessment approach.

Credits: 3

ELEC 407 - Math and Science in Early Childhood Learning

Students will apply theories of child development to the implementation of math and science in the early childhood curriculum. Using a constructivist approach, students will plan and implement activities designed to enhance cognitive development in these areas. Students will become aware of available materials for teaching and assessment.

Prerequisites & Notes

ELEC 327, 337.

Minimum overall GPA, professional conduct standards, and major GPA prerequisites apply. Details are available in the departmental office or from the student's advisor.

Credits: 3

ELEC 410 - Culture and Politics of American Education

Public education (Pre-K-12) in the United States is one of the most important civic debates in our society. Everyone has attended school and everyone seems to have an opinion about what counts as a quality education. The problem of how to provide an education to the youth of this country requires thoughtful decisions-informed by scholarly research, multiple viewpoints and ethical perspectives. This course will provide students the opportunity to explore the cultural, political and legal issues facing public education today.

Credits: 3

ELEC 415 - Early Science and Math

Students will apply theories of child development to the implementation of math and science in the early childhood curriculum. Using a constructivist approach, students will plan and implement activities designed to enhance cognitive development in these areas. Students will become aware of available materials for teaching and assessment.

Credits: 4

ELEC 420 - Early Childhood Field Experience

Candidates enroll as part of the Professional Block in Early childhood Education. This course involves an in-depth teaching experience in an early childhood setting in which opportunities are provided for the application of content knowledge, pedagogical skills, and the assessment of children's learning.

Prerequisites & Notes

Prerequisites: ELEC 316, ELEC 330, ELEC 340, ELEC 311, SPED 325

Co-requisites: ELEC 460, ELEC 470, ELEC 480, SPED 430

Minimum overall GPA, professional conduct standards, and major GPA prerequisites also apply. Details are available in the departmental office or from the student's advisor.

Credits: 3

ELEC 427 - Early Intervention

This course will examine atypical development from birth through age eight. Legal rights of children and families will be explored. Student will study the interventions necessary to assist the young child and their families adjust and adapt to development difficulties. A field component is included.

Prerequisites & Notes

ELEC 327, 337 and 2.5 GPA.

Minimum overall GPA, professional conduct standards, and major GPA prerequisites apply. Details are available in the departmental office or from the student's advisor.

Credits: 3

ELEC 437 - Assessment in Early Childhood

This course is an overview of the role of assessment at the preschool and primary grade levels as integral to curriculum and instructional decision-making. Content will focus on informal assessment measures recommended for early childhood classroom teachers. A field experience gives students the opportunity to apply a variety of assessment measures with young children.

Prerequisites & Notes

ELEC 427, 447 and 2.5 GPA.

Minimum overall GPA, professional conduct standards, and major GPA prerequisites apply. Details are available in the departmental office or from the student's advisor.

Credits: 3

ELEC 440 - ECE Curriculum Integration: Theory into Practice

Development and implementation of an integrated program of all content areas across the learning standards Pre-K through Grade 4, through the integration of play-based, experience-based, and project-based teaching. Selection and development of materials and resources based on assessment data that meet the needs of culturally and linguistically diverse learners is stressed.

Prerequisites & Notes

Prerequisites: ELEC 311, 316, 330, 340, SPED 325

Co-requisites: ELEC 420, 460, 470, SPED 430

Credits: 3

ELEC 445 - Administration of Child Care Programs

Students are introduced in a practical manner to the procedures required to organize, license, and administer a child care program (including preschool and elementary aged children). This course involves a field experience of 5 hours.

Prerequisites & Notes

ELEC 327, 337 and 2.5 GPA.

NOTE: Admission to and retention in the teacher education program are prerequisites for teacher education coursework. Minimum overall GPA, professional conduct standards, and major GPA prerequisites also apply; these are specified in the Teacher Education Policy Manual. Details are available in the departmental office or from the student's advisor.

Credits: 3

ELEC 450 - Internship: Early Childhood

This course is a supervised off-campus, full-time work experience in a certified Early Childhood Education program. Students attend seminars and complete additional assignments made by supervisors. Open only to Elementary Education: Early Learning and Development students.

Prerequisites & Notes

ELEC 447.

Minimum overall GPA, professional conduct standards, and major GPA prerequisites also apply; these are specified in the Teacher Education Policy Manual. Details are available in the departmental office or from the student's advisor.

Credits: 1 to 12

ELEC 455 - Student Teaching: Early Childhood

Under the guidance of a cooperating teacher and university supervisor, candidates engage in teaching assignments on a full-time basis in specified school districts and/or early childhood agencies and attend scheduled seminars. Student teaching requires a partnership between the university and cooperating school districts and agencies. It is considered the culminating experience and the most beneficial teacher preparation course. It is a transition between pre-service and in-service teaching.

Prerequisites & Notes

Must show evidence of taking all of the PECT tests PRIOR to Student Teaching

Credits: 12

ELEC 460 - Instructional Strategies for Science and Technology

This course is designed to introduce the teaching techniques and strategies used by science educators to make science teaching, meaningful, motivating, and plausible for PK-4 students. In addition, the most common curriculum units and

supplements are introduced, explored, and examined for their appropriateness in the early childhood environment and the relationship to the PDE science standards. Emphasis is placed on how to collect and learn about scientific concepts in order to develop the skills necessary to teach coherent centers and/or lessons and choose instructional techniques that will most effectively help children learn. Lastly, confidence in teaching science is established as participants devise, employ, and assess science lessons presented to peers and young children.

Prerequisites & Notes

Prerequisites: ELEC 311, 316, 330, 340, SPED 325

Co requisities: ELEC 420, 470, 480, SPED 430

Credits: 3

ELEC 470 - Social Studies & Citizenship

Teacher candidates in this course will explore the social studies curriculum, including its organization; analyze methods of teaching, objectives, and materials; discuss evaluation/assessment techniques and citizenship development for PK-4 learners. Study focuses on best practice classroom applications and the relationship between instruction and student learning outcome.

Prerequisites & Notes

Prerequisites: ELEC 311, 316, 330, 340, SPED 325

Co-requisites: ELEC 420, 460, 480, SPED 430

Credits: 3

ELEC 480 - Assessment for Differentiation of Literacy Instruction

The purpose of this course is to provide teacher candidates with information and experiences that will enable them to utilize formal and informal methods for assessing children's reading ability and materials for improving decoding, fluency, vocabulary, comprehension and motivation. This course we explore the various roles of assessment in education and will look at a variety of data sets to draw conclusions about how they might impact class- or school-level decision making. This course will also provide teacher candidates with information to differentiate their teaching to meet the needs of all learners.

Prerequisites & Notes

Prerequisites: ELEC238 and ELEC330

Corequisites: ELEC 420, 460, 470, SPED 430

Credits: 3

ELEC 490 - Independent Study

A program of independent work conducted by a student who has demonstrated academic proficiency, with prior approval of the student's advisor and departmental chairperson. Prerequisite: Permission of the instructor, departmental chairperson, and dean of the college where the study will be conducted.

Independent Study courses give students the opportunity to pursue research and/or studies that are not part of the university's traditional course offerings. Students work one on one or in small groups with faculty guidance and are typically required to submit a final paper or project as determined by the supervising professor.

Prerequisites & Notes

NOTE: Admission to and retention in the teacher education program are prerequisites for teacher education coursework. Minimum overall GPA, professional conduct standards, and major GPA prerequisites also apply; these are

specified in the Teacher Education Policy Manual. Details are available in the departmental office or from the student's advisor.

Credits: 1 to 3

ELEC 495 - Workshop

A workshop is a program which is usually of short duration, narrow in scope, often non-traditional in content and format, and on a timely topic.

Credits: 1 to 3

ELEC 498 - Selected Topics

Experimental courses covering topics supplementary to teaching in the elementary school may be offered on an irregular basis with this course designation.

A **Selected Topics** course is a normal, departmental offering which is directly related to the discipline, but because of its specialized nature, may not be able to be offered on a yearly basis by the department.

Prerequisites & Notes

NOTE: Admission to and retention in the teacher education program are prerequisites for teacher education coursework. Minimum overall GPA, professional conduct standards, and major GPA prerequisites also apply; these are specified in the Teacher Education Policy Manual. Details are available in the departmental office or from the student's advisor.

Credits: 1 to 3

ENGL 099 - Connecting Reading and Writing

This course is designed to provide entering students with an introduction to college-level writing, reading, and thinking processes. It is a workshop style course, connecting students to the various academic, social, and cultural contexts that inform their reading, writing, and thinking. Students are placed in the course after receiving an SAT Verbal score of 390 or below, an ACT Writing score of 13 or under, or an SAT Essay Writing Component score of 6 or under (based on scores of two readers). Students meeting one of those criteria may sit for an on-site timed essay during orientation for possible exemption from this course. Credit earned in this course will not count toward the university's 120 credit hour minimum required for graduation. Enrollment is continuous until students earn a "C" or better. Students who excel in this course, with the professor's approval, may be placed directly into College Writing II and receive 3 credit hours towards graduation.

Credits: 3

ENGL 101 - Introduction to College Writing

In this course, students will investigate the purposes, both academic and non-academic, for writing and reading. Students will learn to identify meaning and draw inferences from context cues. They will develop increased writing fluency, clarity, and coherence; a fuller understanding of rhetorical principles, including invention, organization, and audience; improved strategies for revising and editing their prose, emphasizing the standards of edited American English; and an understanding of writing and reading as tools for learning and communication.

Students should take this course before taking 102 by advisement, by their own choice, or if any one of the following applies to them: if the SAT Verbal score is 399 or less, if the SAT Writing score is 399 or less, or if the ACT Writing score is 11 or less.

Credits: 3

ENGL 102 - Critical Writing

Students will develop a full understanding of rhetorical principles, including invention, organization, and audience, along with strategies for revising and editing their prose that emphasize clarity, coherence, support, and the standards of edited American English.

They will learn to develop positions on selected issues and questions and compose strongly supported and reasoned arguments regarding those issues and questions.

Finally, they will learn basic information literacy skills, which will include how to locate, evaluate, and incorporate a variety of sources into their writing. They will use these to conduct independent research and integrate it into a written essay.

Credits: 3

ENGL 103 - College Writing II

In this course, students will learn to read academic and persuasive discourse in an active, critical manner; develop deliberated positions on selected issues and questions; compose strongly supported and reasoned arguments regarding those issues and questions; acquire information literacy skills, learning efficient and productive strategies for research from both print and online sources; and complete documented essays which effectively integrate source materials into a persuasive whole.

Prerequisites & Notes

ENGL 101

Credits: 3

ENGL 104 - Critical Reading

Critical Reading will refine and extend students' understanding of the rhetorical principles introduced in Critical Writing, applying them specifically to the critical reading and analysis of complex texts. The texts to be considered will be drawn from a variety of media, genres, historical periods and diverse cultures. Students will examine the methods authors use in developing and expressing ideas to meet the needs of particular audiences and historical moments. Extracting implied meanings, analyzing purpose, tone and style, assessing casual factors and rhetorical effects are keys to critical reading. As a reading intensive course, English 104 will reinforce and refine compositional skills introduced in Critical Writing.

Prerequisites & Notes

ENGL 102

ENGL 104, Critical Reading, is a Basic Requirement course and cannot be dropped or withdrawn from once the course has started.

Credits: 3

ENGL 139 - University Seminar

University Seminar serves as the entry point to the Slippery Rock University general education program. With its small seminar setting and strong faculty-student interaction, the course promotes intellectual inquiry, critical and creative thinking, and academic excellence. Through varied content, the course introduces students to academic discourse and information literacy while exploring topics such as diversity and inclusion and global awareness. This course will set students along the path to becoming engaged with issues and scholarship important to a 21st century education while they learn about themselves and their place in the world.

Credits: 3

ENGL 150 - Writing to Discover

An intensive writers' workshop where participants and facilitators work individually and in small groups to fine-tune the craft of their writing. Course may be repeated up to 4 credits.

Credits: 1

ENGL 190 - Experimental

A unique and specifically focused course within the general purview of a department which intends to offer it on a "one time only" basis and not as a permanent part of the department's curriculum.

Credits: 1 to 3

ENGL 195 - Workshop

A workshop is a program which is usually of short duration, narrow in scope, often non-traditional in content and format, and on a timely topic.

Credits: 1 to 3

ENGL 198 - Selected Topic

A **Selected Topics** course is a normal, departmental offering which is directly related to the discipline, but because of its specialized nature, may not be able to be offered on a yearly basis by the department.

Credits: 1 to 3

ENGL 204 - Composition and Rhetoric

Expository and persuasive writing based on the study and application of rhetorical theory.

Prerequisites & Notes

ENGL 102 and (ENGL 104 or ENGL 220)

Credits: 3

ENGL 205 - Introduction to Professional Writing

This course will introduce a variety of documents typically produced by writers in professional workplace. It will build essential skills for communicating with varied audience with whom one may interact in a professional capacity. Students will work on developing collaborative skills, on rhetorical strategies, on document design, and on refining writing style for clarity, conciseness, and standard usage. The concept of organizational cultures will be introduced, as well as ethical considerations and responsibilities that accompany professional discourse.

Prerequisites & Notes

ENGL 102 and (ENGL 104 or ENGL 220)

Credits: 3

ENGL 214 - Introduction to Film Analysis

A survey of contemporary and classic films, and an introduction to the practices of film analysis.

Prerequisites & Notes

Prerequisites: ENGL 102 and ENGL 104

Credits: 3

ENGL 220 - Introduction to Literary and Cultural Studies

Students will read and write critically about literary texts (written and visual), cultural theory, and avenues of inquiry that theoretical approaches open. Students will also learn how to locate and evaluate the resources that literary, historical, philosophical, and cultural studies depend on, and how to use disciplinary-specific methods of presenting and documenting work.

Prerequisites & Notes

Prerequisites: ENGL 102

Credits: 3

ENGL 225 - Introduction to Creative Writing

Introduction to Creative Writing is a foundations course, offering students the opportunity to develop their abilities to write poetry, fiction, and creative nonfiction. Original student work is read and discussed in class and in conferences with the instructor. Reading of classic and contemporary writers is assigned.

Prerequisites & Notes

ENGL 102 and (ENGL 104 or ENGL 220)

Credits: 3

ENGL 230 - Introduction to Linguistics and Grammar

An introduction to the study of language structure, including the study of grammar (consisting of phonology, morphology, syntax and semantics) within psycholinguistic and sociohistorical linguistic approaches.

Prerequisites & Notes

ENGL 102 and (ENGL 104 or ENGL 220)

Credits: 3

ENGL 235 - Writing for Non-Print Media

This course gives students the opportunity to explore the genre of writing for non-print text, such as digital media, blogs, wikis, film, and social networks. Student will examine the use of audience, tone, and purpose in these types of communication and its application in classrooms as well as in cyber communities.

Prerequisites & Notes

ENGL 102 and (ENGL 104 or ENGL 220)

Credits: 3

ENGL 242 - African-American Literature

A study of black American literature as it pertains to the American experience.

Prerequisites & Notes

ENGL 102 and (ENGL 104 or ENGL 220)

Credits: 3

ENGL 243 - Literature of the Women's Movement

Women authors from various periods read with a woman's perspective on the world.

Prerequisites & Notes

ENGL 102 and (ENGL 104 or ENGL 220)

Credits: 3

ENGL 244 - Native American Literature

A study of Native American Literature as it pertains to the American experience.

Prerequisites & Notes

ENGL 102 and (ENGL 104 or ENGL 220)

Credits: 3

ENGL 246 - U.S. Latino / a Literatures

Study of U.S. Latino literature written in English. Focus will be on how region determines varying components (identity, theme, form, or mood), exemplified in distinctions between immigration, barrio, southwestern, Chicago, and L.A. literatures.

Prerequisites & Notes

ENGL 102 and (ENGL 104 or ENGL 220)

Credits: 3

ENGL 248 - Asian Literature

Study of such standard works as the Bhagavad-Gita, the writings of Confucius, and the Bible, in addition to other works from India, China, and the countries of the near East.

Prerequisites & Notes

ENGL 102 and (ENGL 104 or ENGL 220)

Credits: 3

ENGL 249 - Life/Lit/Service

Life/Lit/Service will explore selected literary and linguistic concerns-e.g. representations of place, class, ethnicity and/or dialectal variation-through a service learning experience, in this case, an intensive week-long trip/service project at an off-campus location (e.g. San Francisco). This course may be repeated for up to three credits.

Credits: 1

ENGL 260 - Elementary College Latin I

An introduction to the Latin language, concentrating on the study of basic forms, grammar, and introductory readings.

Credits: 3

ENGL 261 - Elementary College Latin II

Further study of the Latin language, concentrating on the study of advanced grammar and introductory readings.

Prerequisites & Notes

English 260

Credits: 3

ENGL 272 - Business English

English 272 is a basic overview of essential verbal and writing skills for communicating with various business, corporate, administrative, health services and criminal justice audiences. Student learning will focus on standard business letter and communication genres, standard written English skills, marketing and business presentation skills and strategies, telephone and email etiquette, and typical business reports such as business plans, case studies, and marketing documents.

Prerequisites & Notes

ENGL 102 and (ENGL 104 or ENGL 220)

Credits: 3

ENGL 288 - Classic Theatre Tour

The study of classic drama, climaxed by a trip to the Stratford Shakespeare Festival in Ontario, Canada; the Shaw Festival Theater; or other appropriate theaters in Toronto. Offered in the summer. Travel fee required.

Prerequisites & Notes

ENGL 102 and (ENGL 104 or ENGL 220)

Credits: 3

ENGL 290 - Experimental

A unique and specifically focused course within the general purview of a department which intends to offer it on a "one time only" basis and not as a permanent part of the department's curriculum.

Credits: 1 to 3

ENGL 295 - Workshop

A workshop is a program which is usually of short duration, narrow in scope, often non-traditional in content and format, and on a timely topic.

Credits: 1 to 3

ENGL 298 - Selected Topics

A **Selected Topics** course is a normal, departmental offering which is directly related to the discipline, but because of its specialized nature, may not be able to be offered on a yearly basis by the department.

Prerequisites & Notes

ENGL 102 and (ENGL 104 or ENGL 220) or English major status

Credits: 3

ENGL 305 - Practicum: Teaching Writing

Experience in developing, responding to, evaluating, and grading student writing tasks, and in tutoring student writers, combined with an introduction to theory used in the teaching of writing. Required for certification to teach English in the secondary schools.

Prerequisites & Notes

ENGL 102 and (ENGL 104 or ENGL 220)

Credits: 3

ENGL 306 - Technical and Scientific Writing

Offers practice in integrating research skills and document design with understanding of style, technical concepts, genre, and audience. Features writing of technical and scientific reports, articles, and other documents for practical contexts. Technical and scientific writing occurs in many academic disciplines and professional fields; employs electronic media and design; includes production and presentation of written work; and is both individually and collaboratively written.

Prerequisites & Notes

ENGL 102 and (ENGL 104 or ENGL 220)

Credits: 3

ENGL 307 - Writing About Electronic Media and Film

This course develops writing and theoretical skills in an examination of issues in electronic and digital media studies. Students analyze issues and individual examples relating to such topics as the Internet, texting, SmartPhones, television, film, video games, print and visual journalism, media convergence, and mass media economics.

Prerequisites & Notes

ENGL 102 and (ENGL 104 or ENGL 220)

Credits: 3

ENGL 308 - Advertising Copywriting

Work in the writing and production of advertising copy.

Prerequisites & Notes

ENGL 102 and (ENGL 104 or ENGL 220)

Credits: 3

ENGL 309 - Advanced Professional Writing

Advanced level work in the rhetorical principles and practices of grant and proposal writing; report writing; policy writing; new media writing, including marketing communication; document and information design; and portfolio preparation.

Prerequisites & Notes

ENGL 102 and (ENGL 104 or ENGL 220) and ENGL 205

Credits: 3

ENGL 311 - Chaucer and Medieval Culture

Works by Chaucer and his contemporaries studied within the context of later medieval culture.

Prerequisites & Notes

ENGL 102 and (ENGL 104 or ENGL 220)

Credits: 3

ENGL 312 - Introduction to Shakespeare

An introduction to Shakespeare's plays and poetry within their literary, historical and cultural contexts.

Prerequisites & Notes

ENGL 102 and (ENGL 104 or ENGL 220)

Credits: 3

ENGL 314 - European Film

The critical analysis of films from European Union countries with particular emphasis on countries with high annual film productivity such as France, United Kingdom, Italy, Spain, and Germany. Emphasis in on contemporary films with optional contrast to historical trend-setting films.

Prerequisites & Notes

ENGL 102 and (ENGL 104 or ENGL 220)

Credits: 3

ENGL 315 - The Cinematic Review: Historical and Critical Writing

A survey of significant motion pictures with emphasis upon the techniques of film making and film reviewing.

Prerequisites & Notes

ENGL 102 and (ENGL 104 or ENGL 220)

Credits: 3

ENGL 316 - Asian Film

The critical analysis of films from India and East Asia. Emphasis is on contemporary films from China and Japan. Also meets requirements for the Asian Studies Minor.

Prerequisites & Notes

ENGL 102 and (ENGL 104 or ENGL 220)

Credits: 3

ENGL 317 - British Literature I

A comprehensive study of authors and literary works from the Old English period through Milton.

Prerequisites & Notes

ENGL 102 and (ENGL 104 or ENGL 220)

Credits: 3

ENGL 318 - British Literature II

A comprehensive survey of authors and literary works from the Civil War and Restoration through the early 20th century.

Prerequisites & Notes

ENGL 102 and (ENGL 104 or ENGL 220)

Credits: 3

ENGL 319 - American Literature I

A comprehensive survey of American literature from Puritan times through Melville.

Prerequisites & Notes

ENGL 102 and (ENGL 104 or ENGL 210)

Credits: 3

ENGL 320 - American Literature II

A comprehensive survey of American literature from Whitman through modern times.

Prerequisites & Notes

ENGL 102 and (ENGL 104 or ENGL 220)

Credits: 3

ENGL 327 - Healthcare Writing

Students will develop the advanced literacy and research skills needed for the healthcare field. Working individually and in teams typical of medical practice, students will explore strategies for effective written and spoken interaction with both patients and colleagues. Coursework will rely heavily on medical databases and provide students with the theories and software tools necessary to translate medical information into presentations for both medical professionals and the general public.

Prerequisites & Notes

Minimum C grade in ENGL 102

Credits: 3

ENGL 328 - Young Adult Literature

Surveys literature for adolescents and young people and is intended to cultivate book appreciation, improve book knowledge, and provide curriculum enrichment in intermediate, junior and senior high school libraries. Includes a study of selection aids, book talks and a study of current non-print materials.

Prerequisites & Notes

ENGL 102 and (ENGL 104 or ENGL 220)

Credits: 3

ENGL 330 - Literary Publications & Design

Literary Printing and Publication provides a deeper understanding of print and production practices for students with critical and creative writing backgrounds. Students will study theories and models - both historical and contemporary - for print design, layout, typography and production environment, while applying such theory to the practice of publishing literary artifacts.

Prerequisites & Notes

ENGL102 and (ENGL 104 or ENGL 220)

Credits: 3

ENGL 331 - Historical Development of the English Language

An examination of each historical period to discover the structure of the language, its spelling, vocabulary, syntax, and the influences of social conditions upon it.

Prerequisites & Notes

ENGL102 and (ENGL 104 or ENGL 220)

Credits: 3

ENGL 332 - Modern English Grammar and Syntax

Brief history of the English language; thorough study of traditional and transformational grammar with emphasis on syntax. Differences between prescriptive and descriptive grammar and problems of current usage.

Prerequisites & Notes

ENGL102 and (ENGL 104 or ENGL 220)

Credits: 3

ENGL 336 - Second Language Acquisition

A course designed to acquaint the prospective teacher with theories of second language acquisition (SLA). SLA surveys the processes of acquiring/ learning language including the following issues: sound system-phonemic inventory; words-lexicon; semantics; syntax; critical period for second language learning; linguistic creativity, competence and performance.

Prerequisites & Notes

ENGL102 and (ENGL 104 or ENGL 220)

Credits: 3

ENGL 338 - Creative Writing: Creative Nonfiction

This writing workshop provides the opportunity for students to develop their abilities in writing creative nonfiction. Original student work is read and discussed in class and in conferences with the instructor. Reading of classic and contemporary creative nonfiction is assigned.

Prerequisites & Notes

ENGL102 and (ENGL 104 or ENGL 220) and ENGL 225

Credits: 3 to 6

ENGL 339 - Creative Writing: Fiction

This writing workshop provides the opportunity for students to develop their abilities in writing fiction. Original student work is read and discussed in class and in conferences with the instructor. Reading of classic and contemporary fiction is assigned. This course may be repeated for up to six credits.

Prerequisites & Notes

ENGL102 and (ENGL 104 or ENGL 220)and ENGL 225

Credits: 3

ENGL 340 - Creative Writing: Poetry

This writing workshop provides the opportunity for students to develop their abilities in writing poetry. Original student work is read and discussed in class and in conferences with the instructor. Reading of classic and contemporary poetry is assigned. This course may be repeated for up to six credits.

Prerequisites & Notes

ENGL102 and (ENGL 104 or ENGL 220) and ENGL 225

Credits: 3

ENGL 346 - Writing the Graphic Novel

This creative writing workshop provides an opportunity for students to develop their abilities in creating graphic novels. Original student work is read and discussed in class as well as critiqued in conference with the instructor. The class will also read and analyze historic and contemporary graphic novels. This course may be repeated for up to six (6) credits.

Prerequisites & Notes

Prerequisites: Three (3) English courses: ENGL 102, ENGL 104 (or 220), and ENGL 225. One (1) studio ART course (105, 205, 305, 106, 206, 306, 107, 207, 307, 108, 208, 308, 114, 214, 314, 213, 313, 413). The minimum grade needed is "C".

Credits: 3

ENGL 349 - Creative Writing: Screenplay

Students enrolled in Creative Writing: Screenplay will learn how to write the Hollywood narrative screenplay. Students will learn how to develop a workable story and characters that show growth. Students will write a screenplay and develop a marketing plan to sell it.

Prerequisites & Notes

ENGL102 and (ENGL 104 or ENGL 220) and ENGL 225

Credits: 3

ENGL 360 - Latin Language and Literature

A reading course in classical and medieval Latin verse and prose, with a continuing review of grammar as necessary.

Prerequisites & Notes

ENGL102 and (ENGL 104 or ENGL 220) and ENGL 260 and ENGL 261

Credits: 3

ENGL 365 - Writing for the World Wide Web

This course examines the structure form and rhetoric of writing for web environments.

Prerequisites & Notes

ENGL102 and (ENGL 104 or ENGL 220)

Credits: 3

ENGL 389 - Stratford Shakespeare Tour

Study of the works and time of Shakespeare, climaxed by a trip to the Stratford Shakespeare Festival in Stratford, Ontario, Canada. Offered in the summer only. Travel fee required.

Prerequisites & Notes

ENGL102 and (ENGL 104 or ENGL 220)

Credits: 3

ENGL 390 - Experimental

A unique and specifically focused course within the general purview of a department which intends to offer it on a "one time only" basis and not as a permanent part of the department's curriculum.

Credits: 1 to 3

ENGL 395 - Workshop

A workshop is a program which is usually of short duration, narrow in scope, often non-traditional in content and format, and on a timely topic.

Credits: 1 to 3

ENGL 398 - Selected Topics

The in-depth examination of a specific topic. The nature of the topic selected and its treatment determined in consultation with the instructor.

A **Selected Topics** course is a normal, departmental offering which is directly related to the discipline, but because of its specialized nature, may not be able to be offered on a yearly basis by the department.

Credits: 1 to 3

ENGL 402 - World Literature

Critical analysis of selected works by writers outside the U.S. and Britain.

Prerequisites & Notes

ENGL 102 and (ENGL 104 or ENGL 210)

Credits: 3

ENGL 403 - Literary and Cultural Theory

Selected literary and cultural theory from Plato to the present day, with application to critical analysis of literary arts.

Prerequisites & Notes

ENGL102 and (ENGL 104 or ENGL 220)

Credits: 3

ENGL 409 - Advanced Research Writing

Course will instruct majors in the B.S. in Professional Writing and B.S. in Creative Writing majors in the goals, audiences, sources, methods, and processes requisite for research and professionalization as writers.

Prerequisites & Notes

ENGL102 and (ENGL 104 or ENGL 220)

Credits: 3

ENGL 410 - Literature of the Environment

Encourage those interested in the rhetoric of science, nature writing, and environmentalism to pose informed questions regarding the language, rhetoric, images, and ideas found in significant poetry and prose, fiction and nonfiction, that concern the environment.

Prerequisites & Notes

ENGL102 and (ENGL 104 or ENGL 220)

Credits: 3

ENGL 411 - Science Fiction

Science Fiction situates the genre as a form of critique of the concept of the future. The course provides a literary and historical path for comprehending the genre's evolution. It engages students in cross-disciplinary conversations about scientific and technological advancements that inform narratives as well as established how metaphors of the alien drive science fiction's forecasts. The course highlights how science fiction shapes particular ways of seeing and enacts such modes through the study of diverse texts and application of concepts in projects about our future lives.

Prerequisites & Notes

ENGL 102, 104 and three courses from the thread "The Future" must be taken prior to taking this capstone course.

Credits: 3

ENGL 429 - Grant and Proposal Writing

A review of the research and rhetoric associated with writing successful grants and proposals.

Prerequisites & Notes

ENGL 102 and (ENGL 104 or ENGL 220)

Credits: 3

ENGL 450 - Internship

Provides work experience at an outside agency, such as newspapers, radio stations, industrial firms, government or social service, and the Pittsburgh Pirates and Pittsburgh Penguins public relations offices.

Prerequisites & Notes

ENGL102 and (ENGL 104 or ENGL 220) and permission of instructor

Credits: 1 to 12

ENGL 480 - Literature Seminar

This seminar focuses on a major author or pair of authors, a single literary genre, or a specific literary period.

Prerequisites & Notes

ENGL102 and (ENGL 104 or ENGL 220)

Credits: 3

ENGL 490 - Independent Study

A program of supervised independent study.

Independent Study courses give students the opportunity to pursue research and/or studies that are not part of the university's traditional course offerings. Students work one on one or in small groups with faculty guidance and are typically required to submit a final paper or project as determined by the supervising professor.

Prerequisites & Notes

ENGL102 and (ENGL 104 or ENGL 220) and Permission of the instructor, departmental chairperson, and dean of the college where the study will be conducted

Credits: 1 to 3

ENGL 491 - Senior Writing Project

Creative or expository writing projects.

Prerequisites & Notes

ENGL102 and (ENGL 104 or ENGL 220) and permission from Instructor, Chairperson and Dean

Credits: 1 to 3

ENGL 495 - Workshop

A workshop is a program which is usually of short duration, narrow in scope, often non-traditional in content and format, and on a timely topic.

Credits: 1 to 3

ENGL 498 - Selected Topics

The in-depth examination of a specific topic. The nature of the topic selected and its treatment determined in consultation with the instructor.

A **Selected Topics** course is a normal, departmental offering which is directly related to the discipline, but because of its specialized nature, may not be able to be offered on a yearly basis by the department.

Prerequisites & Notes

ENGL102 and (ENGL 104 or ENGL 220)

Credits: 1 to 3

ENGR 110 - Introduction to Engineering

The first in a two-semester course sequence aiming to provide students with an introduction to engineering, design process, and tools needed in the engineering professions. This course introduces students to the different disciplines of engineering, professional and ethical aspects of engineering, teamwork, engineering design process and problem solving, and various computer applications.

Prerequisites & Notes

Prerequisites: None

Credits: 2

ENGR 120 - Engineering Design Tools

This is the second in a two-semester course sequence aiming to provide students with an introduction to engineering, design process, and tools needed in the engineering professions. This course focuses on the design process, introduction to engineering computing tools, engineering graphics using a Computer Aided Design (CAD) software platform, and 3D printing. Students will learn the basic tools and techniques used in engineering design and problem solving.

Prerequisites & Notes

None.

Credits: 2

ENGR 130 - Engineering Computing Tools

This course provides students with computing skills required in engineering. Course content includes structured programming, engineering problems and open-ended design projects, which are solved in teams with results professionally presented.

Prerequisites & Notes

None.

Credits: 2

ENGR 139 - University Seminar

University Seminar serves as the entry point to the Slippery Rock University general education program. With its small seminar setting and strong faculty-student interaction, the course promotes intellectual inquiry, critical and creative thinking, and academic excellence. Through varied content, the course introduces students to academic discourse and information literacy while exploring topics such as diversity and inclusion and global awareness. This course will set students along the path to becoming engaged with issues and scholarship important to a 21st century education while they learn about themselves and their place in the world.

Credits: 3

ENGR 210 - Statics

Includes the application of equilibrium conditions to structures, trusses, frames and machines, and beams with concentrated and distributed loads.

Prerequisites & Notes

Prerequisite: PHYS 211

Prerequisite/Co-requisite: MATH 230

Credits: 3

ENGR 220 - Engineering Materials

This course covers the properties and uses of typical materials used in various engineering professions, their manufacturing processes, and an introduction to mechanical testing methods.

Prerequisites & Notes

Prerequisite: CHEM 107

Credits: 3

ENGR 230 - Mechanics of Materials

This course provides a review of the basic mechanical properties of the solids with lab. Topics covered will include deformation and failure of solid bodies under the action of forces, stress-strain, Mohr's circle, generalized Hooke's Law, axial bending and buckling.

Prerequisites & Notes

Prerequisite: ENGR 210

Credits: 3

ENGR 231 - Mechanics of Materials Lab

A laboratory course to accompany ENGR 230 Mechanics of Materials. Laboratory experiments are designed to introduce experimental techniques common to structural engineering, interpretation of experimental data, comparison of measurements to numerical/analytical predictions, and formal, engineering report writing.

Prerequisites & Notes

Prerequisites: ENGR 230

Credits: 1

ENGR 240 - Dynamics

Integrates the subject content of kinematics and kinetics that deal respectively with the description of motion of bodies and the causes for their motion.

Prerequisites & Notes

Prerequisites: ENGR 210 and PHYS 314

Credits: 3

ENGR 301 - Fluid Mechanics

This course provides an overview of fluid statics and dynamics concepts. Topics covered will include fluid statics, laminar and turbulent flow of compressible and incompressible fluids, flow measurements, open channel flow and kinetics of fluids.

Prerequisites & Notes

PHYS 314 and MATH 231

Credits: 3

ENGR 310 - Introduction to Electrical Engineering

This course provides a review of the basic concepts in electrical engineering. Topics covered will include electrical engineering units, circuit elements, circuit laws, measurement principles, mesh and node equations, network theorems, operational amplifier circuits, energy storage elements, sinusoids and phasors, sinusoidal steady state analysis, average and RMS values, complex power.

Prerequisites & Notes

PHYS 212 and MATH 231

Credits: 3

ENGR 320 - Thermodynamics

This course provides a detailed review of the basic thermodynamic principles. Topics covered will include properties of ideal gases and vapors; first and second laws of thermodynamics; basic gas and vapor cycles; basic refrigeration.

Prerequisites & Notes

PHYS 213 and MATH 231

Credits: 3

ENGR 340 - Engineering Economics

This course covers the concepts of cash flow, cash flow equivalence, cash flow before taxes, depreciation and depletion, cash flows after taxes, profits, evaluation of alternatives, financial statements and multidisciplinary team project.

Prerequisites & Notes

Prerequisite: MATH 230

Credits: 3

ENVS 139 - University Seminar

University Seminar serves as the entry point to the Slippery Rock University general education program. With its small seminar setting and strong faculty-student interaction, the course promotes intellectual inquiry, critical and creative thinking, and academic excellence. Through varied content, the course introduces students to academic discourse and information literacy while exploring topics such as diversity and inclusion and global awareness. This course will set students along the path to becoming engaged with issues and scholarship important to a 21st century education while they learn about themselves and their place in the world.

Credits: 3

ENVS 190 - Experimental

A unique and specifically focused course within the general purview of a department which intends to offer it on a "one time only "basis and not as a permanent part of the department's curriculum.

Credits: 1 to 3

ENVS 195 - Workshop

A workshop is a program which is usually of short duration, narrow in scope, often non-traditional in content and format, and on a timely topic.

Credits: 1 to 3

ENVS 198 - Selected Topic

A **Selected Topics** course is a normal, departmental offering which is directly related to the discipline, but because of its specialized nature, may not be able to be offered on a yearly basis by the department.

Credits: 1 to 3

ENVS 290 - Experimental

A unique and specifically focused course within the general purview of a department which intends to offer it on a "one time only "basis and not as a permanent part of the department's curriculum.

Credits: 1 to 3

ENVS 295 - Workshop

A workshop is a program which is usually of short duration, narrow in scope, often non-traditional in content and format, and on a timely topic.

Credits: 1 to 3

ENVS 298 - Selected Topic

A **Selected Topics** course is a normal, departmental offering which is directly related to the discipline, but because of its specialized nature, may not be able to be offered on a yearly basis by the department.

Credits: 1 to 3

ENVS 311 - Environmental Monitoring and Sampling

The course will focus on the development and implementation of successful sampling plans for water, soil and sediment. Basic sampling and analysis methods will be presented followed by hands-on field exercises employing these techniques. field notebook documentation and report preparation will be emphasized. At least one field trip will be scheduled for a Saturday during the semester to give students hand-on experience with collection of environmental samples.

Prerequisites & Notes

None

Credits: 3

ENVS 390 - Experimental

A unique and specifically focused course within the general purview of a department which intends to offer it on a "one time only "basis and not as a permanent part of the department's curriculum.

Credits: 1 to 3

ENVS 395 - Workshop

A workshop is a program which is usually of short duration, narrow in scope, often non-traditional in content and format, and on a timely topic.

Credits: 1 to 3

ENVS 398 - Selected Topic

A **Selected Topics** course is a normal, departmental offering which is directly related to the discipline, but because of its specialized nature, may not be able to be offered on a yearly basis by the department.

Credits: 1 to 3

ENVS 440 - Science, Technology and the Environment

A scientific study of interactions of global systems in the geosphere and biosphere. Selected global problems, such as waste production and disposal, energy use, atmospheric warming, ozone depletion, and acid deposition are analyzed along with possible alternatives.

Prerequisites & Notes

Four courses completed in the natural sciences and mathematics area of the liberal studies program

Credits: 3

ENVS 450 - Environmental Science Internship

Academic credit may be earned through a practicum experience, working for an agency or business.

Prerequisites & Notes

A minimum of 16 credits completed in the major and approval of the agency or business, the program director and the advisor

Credits: 1 to 12

ENVS 480 - Environmental Systems Analysis

The student will investigate an environmental problem in conjunction with an appropriate faculty member as a research project.

Prerequisites & Notes

A minimum of 16 credits completed in the major and the approval of the program director and the advisor

Credits: 3

ENVS 490 - Independent Study

Independent Study courses give students the opportunity to pursue research and/or studies that are not part of the university's traditional course offerings. Students work one on one or in small groups with faculty guidance and are typically required to submit a final paper or project as determined by the supervising professor.

Credits: 1 to 3

ENVS 495 - Workshop

A workshop is a program which is usually of short duration, narrow in scope, often non-traditional in content and format, and on a timely topic.

Credits: 1 to 3

ENVS 498 - Selected Topic

A **Selected Topics** course is a normal, departmental offering which is directly related to the discipline, but because of its specialized nature, may not be able to be offered on a yearly basis by the department.

Credits: 1 to 3

ERS 100 - Introduction to Exercise Science: Careers and Content

This course introduces students to the exercise science discipline and the numerous sub-disciplines of exercise science. Opportunities are provided to identify the various content areas of exercise science, characteristics of exercise science professionals and current trends in the field. Emphasis is placed on career planning and employment opportunities.

Credits: 3

ERS 101 - Applied Anatomy/Lab

This course focuses on the structure of the human body with emphasis on the musculoskeletal, cardiorespiratory, and nervous systems. The role of the musculoskeletal system in human movement is explored. Laboratory included.

Credits: 3

ERS 107 - Introduction to Athletic Training

Addresses the historical development of athletic training and the scope of present programs, including personnel, space and equipment, necessary supplies, conditioning, pharmacology, classification of sports injuries and tissue response to injuries.

Credits: 3

ERS 117 - Prevention & Emergency Care in Athletic Training

This course is designed to facilitate learning of the cognitive and psychomotor knowledge, skills and abilities utilized in prevention and emergency care in Athletic Training. This course integrates cognitive concepts into progressively higher functional and practical application.

Prerequisites & Notes

ERS 101 (grade of B or better), ERS 107 (grade of B or better)

Credits: 3

ERS 139 - University Seminar

University Seminar serves as the entry point to the Slippery Rock University general education program. With its small seminar setting and strong faculty-student interaction, the course promotes intellectual inquiry, critical and creative thinking, and academic excellence. Through varied content, the course introduces students to academic discourse and information literacy while exploring topics such as diversity and inclusion and global awareness. This course will set students along the path to becoming engaged with issues and scholarship important to a 21st century education while they learn about themselves and their place in the world.

Credits: 3

ERS 190 - Experimental

A unique and specifically focused course within the general purview of a department which intends to offer it on a "one time only "basis and not as a permanent part of the department's curriculum.

ERS 195 - Workshop

A workshop is a program which is usually of short duration, narrow in scope, often non-traditional in content and format, and on a timely topic.

ERS 198 - Selected Topics

A **Selected Topics** course is a normal, departmental offering which is directly related to the discipline, but because of its specialized nature, may not be able to be offered on a yearly basis by the department.

ERS 200 - Measurement and Statistical Application in Exercise Science

This course focuses on the collection, analysis, and interpretation of health and fitness data. Computer software applications are used to analyze data with descriptive and inferential statistics.

Credits: 3

ERS 201 - Exercise Physiology/Lab

This course focuses on the physiological bases of exercise with emphasis on the responses and adaptations of the human body to a variety of exercise stimuli. Laboratory included.

Prerequisites & Notes

ERS 101

Credits: 3

ERS 202 - Biomechanics/Lab

This course examines human movement using mechanical principles. Human anatomy and basic physics are combined to understand and analyze human movement with specific emphasis on physical activity and exercise. Biomechanics of movement in people with physical disabilities is also explored. Laboratory included.

Prerequisites & Notes

ERS 101 and PHYS 201

Credits: 3

ERS 210 - The Truth About Weight Loss

This course provides the opportunity to understand how body weight is lost or gained in a healthy and sustainable way. An understanding of fraudulent practices and products related to weight loss will be explored. Emphasis is placed on individualized practical approaches to weight management including the understanding and implementation of simple behavior change strategies. Opportunities to create a personal weight management plan will be provided.

Prerequisites & Notes

None

Credits: 3

ERS 220 - Clinical Experiences in Athletic Training I

This course is designed to provide opportunities for students to apply previously acquired athletic training knowledge, skills and abilities in the clinical setting under the direct supervision of a program approved preceptor. Emphasis is placed on practicing and implementing the current NATA Education Competencies designated at Level I in the learning over time model.

Prerequisites & Notes

ERS 117 (grade of C or better) and formal acceptance into the professional strand of the Athletic Training program

Credits: 1

ERS 221 - Lower Extremity Pathology, Diagnosis and Manual Techniques in Athletic Training

This course is designed to integrate cognitive and psychomotor knowledge, skills and abilities, and facilitate practical application of the psychomotor skills specific to competent diagnosis and management of various injuries, conditions and pathologies incurred to the lower extremity.

Prerequisites & Notes

ERS 117 (grade of C or better) and formal acceptance into the professional strand of the Athletic Training program

Credits: 4

ERS 222 - Fundamentals of Research in Athletic Training

This course is designed to introduce a foundational knowledge of research, the types of research, and the role it plays in athletic training. Emphasis is placed on developing library research skills, identifying research, demonstrating basic scientific writing skills, and becoming a knowledgeable consumer of research in order to apply it in the clinical environment.

Prerequisites & Notes

Formal acceptance into the professional strand of the Athletic Training program

Credits: 3

ERS 230 - Stress Management

This course examines intrapersonal and interpersonal stressors, the effect of stress on the body and the key concepts and theories of stress management. Effective stress evaluations and coping strategies for preventing and managing stress will be integrated. After taking this course, students will be able to demonstrate an understanding of the personal and societal impact of stress management.

Credits: 3

ERS 231 - Group Exercise Instruction

This course provides opportunities for practical skills and instruction in various group exercise activities. Emphasis is placed on physiological principles related to group exercise, as well as choreography, safety and modification for diverse populations. Current group exercise trends and research are explored.

Prerequisites & Notes

ERS 201

Credits: 3

ERS 241 - Upper Extremity Pathology, Diagnosis and Manual Techniques in Athletic Training

This course is designed to integrate cognitive and psychomotor knowledge, skills and abilities, and facilitate practical application of the psychomotor skills specific to competent diagnosis and management of various injuries, conditions and pathologies incurred to the upper extremity.

Prerequisites & Notes

ERS 221 (grade of C or better)

Credits: 4

ERS 250 - Medical Terminology

This course is designed to provide students with a basic understanding of the language of medicine. Emphasis is placed on basic medical word construction and medical language derivation related to health care.

Prerequisites & Notes

COURSE IS CROSS LISTED AS HCAM 250

Credits: 3

ERS 290 - Experimental

A unique and specifically focused course within the general purview of a department which intends to offer it on a "one time only "basis and not as a permanent part of the department's curriculum.

ERS 295 - Workshop

A workshop is a program which is usually of short duration, narrow in scope, often non-traditional in content and format, and on a timely topic.

ERS 298 - Selected Topics

A **Selected Topics** course is a normal, departmental offering which is directly related to the discipline, but because of its specialized nature, may not be able to be offered on a yearly basis by the department.

ERS 300 - Research Methods in Exercise Science

This course examines the scientific method and the role of research in developing knowledge in Exercise Science. Students develop skills to become critical consumers of research and other publicly disseminated information. Students design a data collection project using the concepts learned in the class.

Prerequisites & Notes

Prerequisites: ERS 201, ERS 202, and STAT 152

Credits: 3

ERS 301 - Aerobic Exercise Leadership

This course provides opportunities for the development of practical skills to instruct and lead aerobic exercise. Emphasis is placed on construction of a session utilizing various equipment and modes based upon appropriate physiological theories and biomechanical principles. Safety, effectiveness, intensity monitoring and modifications will be addressed.

Prerequisites & Notes

ERS 201 and ERS 202

Credits: 3

ERS 302 - Exercise Leadership: Resistance Training

This course provides both the theoretical knowledge and practical skills to safely and effectively design and implement resistance training programs for health and sports performance. Emphasis is placed on physiological and

biomechanical principles associated with resistance exercise techniques. Current trends and research in resistance training are explored.

Prerequisites & Notes

ERS 201 and ERS 202

Credits: 3

ERS 307 - Concepts of General Medicine in Athletic Training

This course is designed to integrate cognitive knowledge and abilities with the practical application of psychomotor skills specific to the assessment and management of general medical conditions. This course will provide foundational knowledge and application related to pharmacology.

Prerequisites & Notes

ERS 117 (grade of C or better) and formal acceptance into the professional strand of the Athletic Training program

Credits: 4

ERS 310 - Clinical Experiences in Athletic Training II

This course is designed to provide opportunities for students to apply previously acquired athletic training knowledge, skills and abilities in the clinical setting under the direct supervision of a program approved preceptor. Emphasis is placed on practicing and implementing the current NATA Education Competencies designated at Level II in the learning over time model.

Prerequisites & Notes

ERS 220 (grade of C or better)

Credits: 1

ERS 317 - Therapeutic Modalities Theory & Technique

This course is designed to integrate cognitive knowledge and abilities with the practical application or psychomotor skills specific to the use of contemporary physical modalities. This course will provide foundational knowledge and application related to the indications, contraindications and methods of application.

Prerequisites & Notes

ERS 221 (grade of C or better) and formal acceptance into the professional strand of the Athletic Training program

Credits: 4

ERS 320 - Clinical Experiences in Athletic Training III

This course is designed to provide opportunities for students to apply previously acquired athletic training knowledge, skills and abilities in the clinical setting under the direct supervision of a program approved preceptor. Emphasis is placed on practicing and implementing the current NATA Education Competencies designated at Level III in the learning over time model.

Prerequisites & Notes

ERS 240 (grade of C or better)

Credits: 1

ERS 340 - Clinical Experiences in Athletic Training IV

This course is designed to provide opportunities at an increasing professional level for students to apply previously acquired athletic training knowledge, skills and abilities in the clinical setting under the direct supervision of a program approved preceptor. Students will practice and implement the current NATA Education Competencies designated at Level IV in the learning over time model.

Prerequisites & Notes

ERS 320 (grade of C or better)

Credits: 1

ERS 347 - Therapeutic Rehabilitation in Athletic Training

This course is designed to facilitate learning specific to the theory and application of therapeutic rehabilitation techniques for a diverse population. Emphasis is placed on the planning and implementation of therapeutic rehabilitation protocols for the prevention and/or care of various injuries.

Prerequisites & Notes

ERS 221 (grade of C or better)

Credits: 4

ERS 350 - Advanced Application of Resistance Training

This course is designed to address advanced theories in the application of resistance training. Selected activities will allow for the application of concepts to individuals with specific goals and considerations (e.g. athletes, diseased populations, etc.). Topics of consideration will include the location and analysis of peer-reviewed resources, individualized needs analysis and the selection of muscular fitness assessments, chronic adaptations to long-term resistance training, and long-term client development and periodization.

Prerequisites & Notes

ERS 302 with a grade of C or better; or
equivalent course and instructor approval

Credits: 3

ERS 390 - Experimental

A unique and specifically focused course within the general purview of a department which intends to offer it on a "one time only" basis and not as a permanent part of the department's curriculum.

ERS 395 - Workshop

Varies.

ERS 398 - Selected Topics

A **Selected Topics** course is a normal, departmental offering which is directly related to the discipline, but because of its specialized nature, may not be able to be offered on a yearly basis by the department.

ERS 400 - Wellness Coaching and Program Management

This course examines the concepts of health, wellness and resilience. Emphasis placed on developing wellness coaching skills and the ability to utilize behavior change theories to develop wellness programming for individuals and groups. Fundamentals of business administration, as they relate to wellness programming, are also covered.

Prerequisites & Notes

Sufficient Academic Performance; ERS 300, 301, 302, and BIOL 216

Co-requisites: ERS 401, 402 and 403

Grade of C or better required

Credits: 3

ERS 401 - Fitness Assessment

This course provides practical experiences in the selection, administration, and interpretation of various health-related fitness tests. Emphasis is placed on proper technique and communication throughout the assessment process.

Prerequisites & Notes

Sufficient Academic Performance; ERS 300, 301, 302, and BIOL 216

Co-requisites: ERS 400, 402 and 403

Grade of C or better required

Credits: 3

ERS 402 - Exercise Prescription

This course provides the theoretical knowledge and practical skills to design personalized exercise programs that elicit specific physiologic responses and adaptations. Emphasis is placed on prescribing safe and effective individualized cardiorespiratory, musculoskeletal and weight management programs.

Prerequisites & Notes

Sufficient Academic Performance; ERS 300, 301, 302, and BIOL 216

Co-requisites: ERS 400, 401 and 403

Grade of C or better required

Credits: 3

ERS 403 - Advanced Exercise Physiology/Lab

This course provides in depth inquiry into the acute responses and long term adaptations of the human body to various types of exercise from the cellular level to the entire system. Emphasis is placed on the physiological demands of exercise and exercising at terrestrial extremes. Laboratory included.

Prerequisites & Notes

Sufficient Academic Performance; ERS 300, 301, 302 and BIOL 216

Co-requisites: ERS 400, 401, 402

Grade of C or better required

Credits: 3

ERS 407 - Health Care Administration in Athletic Training

Studies topics relevant to management, organization, administration, and professional development in the profession of athletic training. Topics will include discussions specific to diversity in the health care system.

Prerequisites & Notes

ERS387

Credits: 3

ERS 410 - Clinical Exercise Physiology/Lab

This course examines cardiopulmonary exercise physiology, the pathophysiology of selected cardiovascular and respiratory diseases, cardiopulmonary rehabilitation, electrocardiography and clinical graded exercise testing. The influence of age, sex, culture, and ethnicity on risk factors for, prevalence of, and outcomes associated with selected cardiovascular and respiratory diseases are emphasized.

Prerequisites & Notes

Sufficient Academic Performance; Grade of C or better in the following ERS courses: ERS 400, 401, 402, 403; and BIOL 217

Co-requisites: ERS 411 and 412

Grade of C or better required

Credits: 3

ERS 411 - Exercise Science: Special Populations and Conditions

This course evaluates the impact of physical activity and exercise on youth, older adults, and individuals with various health conditions and controlled diseases. Changes that occur during growth, development, maturation and the aging process in relation to physical activity/ exercise are examined. Pathophysiology, disease management, medications, exercise testing, and acute responses and chronic adaptations of physical activity/exercise programs for individuals with various health conditions and controlled diseases are identified. Special considerations for health, disease, and physical activity / exercise programming for diverse populations are explored.

Prerequisites & Notes

Sufficient Academic Performance; Grade of C or better in the following ERS courses: ERS 400, 401, 402, 403; and BIOL 217

Co-requisites: ERS 410 and 412

Grade of C or better required

Credits: 3

ERS 412 - Exercise Science: Senior Synthesis

This course provides the opportunity to synthesize knowledge, skills and abilities in both classroom and supervised practical settings. Emphasis is placed on developing, implementing and evaluating comprehensive exercise programs for diverse clientele. Opportunities to enhance professional and personal development are provided. Valid CPR/AED certification and proof of professional liability insurance required.

Prerequisites & Notes

Sufficient Academic Performance; Grade of C or better in the following ERS courses: ERS 400, 401, 402, 403; and BIOL 217; and (HLTH 424 or ERS 424)

Co-requisites: ERS 410 and 411

Grade of C or better required

Credits: 3

ERS 417 - Wellness and Reconditioning in Athletic Training

This course is designed to facilitate learning specific to safe and effective health-related wellness screening, and the design and implementation of fitness programs for a diverse population. Incorporates theoretical knowledge and skills of health and wellness.

Prerequisites & Notes

ERS 117 (grade of C or better) and formal acceptance into the professional strand of the Athletic Training program

Credits: 3

ERS 424 - Nutrition and Exercise

This course provides an understanding of the dietary standards that dictate nutritional requirements for apparently healthy adults. Emphasis is placed on the evaluation of an recommendations for macronutrients, micronutrients, and hydration status for health, physical activity, and human performance.

Prerequisites & Notes

Prerequisites: (HLTH 314 or ERS 300), ERS 301, and ERS 302

For Exercise Majors only; ERS 424 will be added as a prerequisite or concurrent to ERS 412. There is no co-requisite for Athletic Training majors

Credits: 3

ERS 427 - Mastery in Athletic Training

A capstone course that allows the student to synthesize and apply knowledge and skills of an entry-level athletic trainer in a comprehensive manner.

Prerequisites & Notes

Completion of 9 credits of ERS 387

Credits: 3

ERS 430 - Seminar in Strength and Conditioning

This course analyzes advanced strength and conditioning theory and practice. Topics include musculoskeletal and cardiorespiratory physiology, metabolism and nutrition, acute responses to exercise and chronic adaptations to training, biomechanical concepts, measurement and evaluation, resistance training techniques, exercise prescription, speed development, and plyometric training. In addition, this course prepares students to take the Certified Strength and Conditioning Specialist (CSCS) examination provided by the National Strength and Conditioning Association (NSCA).

Prerequisites & Notes

ERS 302 or permission of instructor

Credits: 3

ERS 431 - Health and Fitness in the Older Adult

This course examines wellness promotion and health fitness programs for the older adult, particularly people age fifty and above. Emphasis is placed upon prevention or delay of chronic diseases or disorders.

Prerequisites & Notes

ERS 401 and ERS 402 or permission of instructor

Credits: 3

ERS 432 - Pediatric Exercise Science

This course examines health, physical activity, and physical fitness status of children and adolescents. Physiological responses to exercise, methodologies for assessing physical fitness and physical activity, and promotion of physical activity are discussed. Current research in various topics related to exercise in children and adolescents are explored.

Prerequisites & Notes

ERS 401 and ERS 402 or permission of instructor

Credits: 3

ERS 434 - Physiology of Aging and Physical Activity

This course examines the physiology of the aging process with emphasis on the effects of physical activity on health and on the degenerative process of aging. Emphasis is placed on the physiological responses to aging that are influenced by physical activity.

Prerequisites & Notes

ERS 401 and 402

Credits: 3

ERS 450 - Exercise Science Internship

This course provides the opportunity for students to develop and apply exercise science knowledge, skills, and abilities in a supervised university approved setting.

Prerequisites & Notes

Completion of internship application process which includes the following:

- Completion of internship application form
- Proof of current Student Professional Liability Insurance
- Proof of current CPR/AED and First Aid certification
- Sufficient Academic Performance
- Overall and major GPA of 2.75 or better
- Successful completion of Exercise Science coursework with a grade of C or better required in all 400 level ERS courses

Credits: 1 to 12

ERS 490 - Independent Study

Independent Study courses give students the opportunity to pursue research and/or studies that are not part of the university's traditional course offerings. Students work one on one or in small groups with faculty guidance and are typically required to submit a final paper or project as determined by the supervising professor.

Prerequisites & Notes

Senior standing

Credits: 3

ERS 495 - Workshop

A workshop is a program which is usually of short duration, narrow in scope, often non-traditional in content and format, and on a timely topic.

ERS 497 - Clinical Synthesis in Athletic Training

This course provides the students with decision-making opportunities to synthesize and integrate all previously acquired athletic training knowledge, skills and abilities in the classroom and clinical setting under the direct supervision of a program approved preceptor. Students will practice and implement all the current NATA Education Competencies designated at the clinical integration proficiency level.

Prerequisites & Notes

ERS 340 (grade of C or better)

Credits: 3

ERS 498 - Selected Topic

A **Selected Topics** course is a normal, departmental offering which is directly related to the discipline, but because of its specialized nature, may not be able to be offered on a yearly basis by the department.

ERS 590 - Experimental

A unique and specifically focused course within the general purview of a department which intends to offer it on a "one time only "basis and not as a permanent part of the department's curriculum.

Credits: 3

ESL 001 - Start ESL Reading

This course is not for native speakers of English. This is a beginning ESL reading course in which students focus on understanding the meaning of written English by reading a variety of texts. students develop skills to read and understand English to make a transition from word-by-word translation to reading comprehension.

Credits: 0

ESL 002 - Basic ESL Reading

This course is not for native speakers of English. This is a basic ESL reading course in which students read various types of written texts in order to improve reading skills. Topics relate to academic and everyday life. Emphasis is placed on building vocabulary, developing reading strategies and critical thinking skills.

Credits: 0

ESL 003 - Intermediate ESL Reading

This course is not for native speakers of English. Students learn to read English as a second language fluently by reading interesting stories with a variety of topics, controlled for proficiency with appropriate difficulty. The course focuses on developing reading skills including pre-reading, skimming and scanning as well as building and developing a working English vocabulary. Students also write responses to the stories they read and share their reflections with their classmates.

Credits: 0

ESL 004 - High Intermediate ESL Reading

This course is not for native speakers of English. This course uses a variety of authentic, meaningful and stimulating ESL readings. The course focuses on developing critical reading strategies, skimming and scanning abilities, increasing reading speed, building academic vocabulary power, drawing inferences, previewing, predicting and finding the main idea. Students will build successful reading strategies to comprehend language and concepts presented in college textbooks.

Credits: 0

ESL 005 - Advanced ESL Reading

This course is not for native speakers of English. In this course, students read a variety of authentic, meaningful and stimulating texts in order to help students develop critical reading strategies, increase reading speed and build academic

vocabulary. The goal of this class is to prepare students with successful ESL reading strategies to comprehend language and concepts that students will encounter in university level textbooks through a variety of disciplines as is required by a liberal studies curriculum.

Credits: 0

ESL 011 - Start ESL Listening

This course is not for native speakers of English. This course helps students with basic ESL listening needs in daily life situations. Students develop their listening and speaking skills in order to interact with others. Emphasis is also placed on recognizing different sounds in American English.

Credits: 0

ESL 012 - Basic ESL Listening

This course is not for native speakers of English. This course helps students with basic ESL listening needs in daily life and basic academic situations. Focus is on listening comprehension, with students developing their listening and speaking skills in order to interact with others.

Credits: 0

ESL 013 - Intermediate ESL Listening I

This course is not for native speakers of English. This course helps students with basic ESL listening needs in daily life and basic academic situations. Focus is on interpersonal communication skills in spoken American English. The course focuses on a variety of listening comprehension skills and strategies in order for students to become more effective listeners in a variety of settings.

Credits: 0

ESL 014 - High Intermediate ESL Listening

This course is not for native speakers of English. This course prepares students for the demands of college-level academic listening tasks. The course aims to enhance students' ESL listening skills and to provide strategies and practice for listening to instructors and classmates who use a variety of speech patterns and vocabulary in class lectures and discussion.

Credits: 0

ESL 015 - Advanced ESL Listening

This course is not for native speakers of English. This course prepares students for the demands of college-level academic listening tasks. The course aims to enhance students' ESL listening skills and to provide strategies and practice for listening to instructors and classmates who use a variety of speech patterns and vocabulary in class lectures and discussion. Students will practice listening to lectures from a variety of academic disciplines and will analyze the material that they hear. Students will also practice strategies for active participation in lectures and class discussion.

Credits: 0

ESL 021 - Start ESL Writing

This course is not for native speakers of English. This course provides basic ESL writing instruction for beginning level English language learners. Students will work on sentence and short-paragraph length writing to express their ideas in English.

Credits: 0

ESL 022 - Basic ESL Writing

This course is not for native speakers of English. This course helps ESL students learn how to generate topics and write paragraph length discourse. There is also an emphasis on reading to understand writing styles and organization strategies. Students develop writing fluency by keeping a journal of American English essays throughout the semester.

Credits: 0

ESL 023 - Intermediate ESL Writing

This course is not for native speakers of English. This course helps students learn to generate topics and write paragraph length ESL discourse. Sentence structure and writing conventions of academic American English are also explored. Students will study application of vocabulary and grammar skills for writing and practice reading to understand writing better.

Credits: 0

ESL 024 - High Intermediate ESL Writing

This course is not for native speakers of English. This course prepares students to write academic papers by exploring elements of academic writing and its process. Students generate topics, write cohesive paragraphs, use organizational strategies and learn to consider audience. Students also explore self-expression and writing identity through ESL journal writing.

Credits: 0

ESL 025 - Advanced ESL Writing

This course is not for native speakers of English. In this course, students learn to write for a variety of purposes considering their audience. Lessons include developing appropriate writing styles and applying organizational strategies for different styles of texts. Students practice the writing process and practice prewriting, revision and editing. Students also learn about the U.S. academic expectations of writers, including appropriate citation practices and the importance of avoiding plagiarism. Students also learn strategies to improve their writing through self and peer review.

Credits: 0

ESL 031 - Start ESL Speaking

This course is not for native speakers of English. This course emphasizes interpersonal ESL communication at a beginning level. Class meetings center around speaking activities that encourage fluency. Some attention will also be given to cultural considerations, pronunciation and conversation strategies.

Credits: 0

ESL 032 - Basic ESL Speaking

This course is not for native speakers of English. This course emphasizes interpersonal ESL communication with some focus on academic speech. Class meetings center around speaking activities that encourage fluency and comprehensibility. The class will help students set realistic goals for their pronunciation practices and learning strategies to improve their comprehensibility and confidence in speaking English.

Credits: 0

ESL 033 - Intermediate ESL Speaking

This course is not for native speakers of English. This course is designed to help students develop their own identity as an ESL speaker and user. In this course, students draw on their background knowledge of conversation skills from their primary language while they explore standard conventions in American English. The class will help students set realistic goals for their pronunciation studies and learn strategies to improve their comprehensibility and confidence in speaking English.

Credits: 0

ESL 034 - High Intermediate ESL Speaking

This course is not for native speakers of English. This course helps students explore the dynamic of ESL communication between different cultures. It provides students with strategies to communicate with people from different cultures and provides opportunities for students to interact with speakers from different cultural backgrounds. The emphasis of the class is oral communication, but students also learn about nonverbal communication and develop reading and writing skills.

Credits: 0

ESL 035 - Advanced ESL Speaking

This course is not for native speakers of English. This course is designed to enhance students' academic language skills to help them be successful in U.S. college courses. Students will learn to participate effectively in a variety of academic situations, such as discussions, lectures, study groups, team-projects and debates. The students will acquire a number of study skills including note-taking, brainstorming, problem-solving and pragmatic strategies for participating in class discussions.

Credits: 0

ESL 041 - Introduction to American English Grammar

This course is not for native speakers of English. This course presents the basics of American English grammar with an emphasis on conversational strategies.

Credits: 0

ESL 042 - Basic American Grammar

This course is not for native speakers of English. This course presents the basics of American English grammar with an emphasis on the sources from authentic written texts.

Credits: 0

ESL 043 - Intermediate American English Grammar

This course is not for native speakers of English. This course is designed to reinforce and refine knowledge of common grammatical structures. Students will increase their familiarity with and use of standard grammatical structures. Emphasis will be placed on grammatical structures common to academic speech and writing.

Credits: 0

ESL 044 - High Intermediate American English Grammar

This course is not for native speakers of English. This course is designed to reinforce and refine knowledge of common grammatical structures. Students will increase their familiarity with and use of standard grammatical structures. Emphasis will be placed on grammatical structures common to academic speech and writing.

Credits: 0

ESL 045 - Advanced American English Grammar

This course is not for native speakers of English. This course is designed to develop the abilities needed to use a variety of grammatical structures effectively and efficiently. The emphasis is on academic English in oral and written communication.

Credits: 0

ESL 051 - Introduction to American Culture

This course is not for native speakers of English. In this course, students learn about U.S. culture and explore resources available in the community of Slippery Rock, PA. Students study pragmatic strategies to help them have successful interactions with others in the Slippery Rock community.

Credits: 0

ESL 052 - Exploring American Culture I

This course is not for native speakers of English. In this course, students learn about American life on campus and in the town and region. Students will learn to use the resources available at SRU and in Slippery Rock and Pittsburgh area. The aim of the course is to help students adjust more quickly and completely to living and studying in America and at SRU.

Credits: 0

ESL 053 - Exploring American Culture II

This course is not for native speakers of English. In this course, students learn about American life on campus and in the town of Slippery Rock and the Pittsburgh region. Students will compare cultural perspectives from around the world. In addition, students will explore academic culture at SRU and learn to use the resources available at SRU.

Credits: 0

ESL 054 - Understanding American Culture

This course is not for native speakers of English. In this course, students learn about American life on campus and in the town and region. Students will compare cultural perspectives from around the world. In addition, students will explore academic culture at SRU and learn to use the resources available at SRU. By exploring culture through a variety of activities, both in and outside of the classroom, students develop a repertoire of listening, speaking, reading and writing strategies for effective interactions in the U.S.

Credits: 0

ESL 055 - Living in America

This course is not for native speakers of English. This course exposes students to a combination of American history and culture. Students will explore a variety of cultural topics and historical events. A multimedia approach will be used to develop cultural awareness. The class will encourage students to engage in open communication concerning their understandings and assumptions about life in the U.S. Students will participate in group projects in which they present cultural and historical backgrounds about important U.S. events or practices. Students will also explore the implication of U.S. history and culture for university life.

Credits: 0

ESL 061 - ESL Tutorial I

This course is not for native speakers of English. This course is a required tutorial. ESL tutoring provides individualized attention for students' language learning needs by pairing them with SRU students for small group instruction and interactions.

Credits: 0

ESL 062 - ESL Tutorial II

This course is not for native speakers of English. This course is a required tutorial. ESL tutoring provides individualized attention for students' language learning needs by pairing them with SRU students for small group instruction.

Credits: 0

ESL 063 - ESL Tutorial III

This course is not for native speakers of English. This course is a required tutorial. ESL tutoring provides individualized attention for students' language learning needs by pairing them with SRU students for small group instruction.

Credits: 0

ESL 064 - ESL Tutorial IV

This course is not for native speakers of English. This course is a required tutorial. ESL tutoring provides individualized attention for students' language learning needs by pairing them with SRU students for small group instruction.

Credits: 0

ESL 065 - Independent Seminar

This course is not for native speakers of English. This course is a self-driven, student-oriented academic ESL practice session. In the beginning of a semester, each student meets with the director about their study plan in an American university and the director assigns a semester-long task. In the middle and at the end of a semester, the student must report the progress and the outcome of the study to the director.

Credits: 0

FIN 100 - Personal Financial Planning

All individuals encounter challenging financial decisions. This course will introduce a wide variety of topics, such as cash and debt management, credit rating, insurance policies, housing decisions, taxes, investments retirement, and estate planning. In addition, students will apply financial planning principles to diverse populations.

Credits: 3

FIN 139 - University Seminar

University Seminar serves as the entry point to the Slippery Rock University general education program. With its small seminar setting and strong faculty-student interaction, the course promotes intellectual inquiry, critical and creative thinking, and academic excellence. Through varied content, the course introduces students to academic discourse and information literacy while exploring topics such as diversity and inclusion and global awareness. This course will set students along the path to becoming engaged with issues and scholarship important to a 21st century education while they learn about themselves and their place in the world.

Credits: 3

FIN 190 - Experimental

A unique and specifically focused course within the general purview of a department which intends to offer it on a "one time only" basis and not as a permanent part of the department's curriculum.

FIN 195 - Workshop

A workshop is a program which is usually of short duration, narrow in scope, often non-traditional in content and format, and on a timely topic.

FIN 198 - Selected Topic

A **Selected Topics** course is a normal, departmental offering which is directly related to the discipline, but because of its specialized nature, may not be able to be offered on a yearly basis by the department.

FIN 290 - Experimental

A unique and specifically focused course within the general purview of a department which intends to offer it on a "one time only "basis and not as a permanent part of the department's curriculum.

FIN 295 - Workshop

A workshop is a program which is usually of short duration, narrow in scope, often non-traditional in content and format, and on a timely topic.

FIN 298 - Selected Topic

A **Selected Topics** course is a normal, departmental offering which is directly related to the discipline, but because of its specialized nature, may not be able to be offered on a yearly basis by the department.

FIN 304 - Money and Banking

Emphasis is upon monetary policy, how it is implemented, the theories on which it is based, and the implication of this policy on our economy.

Prerequisites & Notes

ECON 201

Credits: 3

FIN 318 - Intermediate Statistical Analysis

Statistical analysis encompassing multiple regression and correlation, ANOVA (simple and multivariate), goodness of fit, statistical decision analysis, and advanced forecasting techniques.

Prerequisites & Notes

ECON 219 or MGMT 219, or permission of the instructor

Credits: 3

FIN 320 - Managerial Finance

Capital budgeting, cost of capital, management of short and long term assets, mergers and financial reorganization.

Prerequisites & Notes

ACCT 209

Credits: 3

FIN 321 - Investments

Introduction to security markets and their operation; investment alternatives; fundamentals of investment analysis.

Prerequisites & Notes

FIN 320 or permission of the instructor

Credits: 3

FIN 322 - Bank Financial Management

Principles of bank financial management including sources and uses of funds and the role of the bank in financial markets.

Prerequisites & Notes

FIN 320 or permission of the instructor

Credits: 3

FIN 323 - Financial Markets and Institutions

Introduction to financial markets and institutions and to their role in financing business, consumers and government.

Prerequisites & Notes

FIN 320 or permission of the instructor

Credits: 3

FIN 326 - Intermediate Corporate Finance

This course provides in-depth analysis of topics addressed in corporate finance and covers additional advanced topics including but not limited to real asset valuation, corporate governance, short-term financial management, and mergers and acquisitions.

Prerequisites & Notes

FIN 320

Credits: 3

FIN 329 - Principles of Insurance

A study of the basic principles of insurance and risk. Topics include property and liability insurance; the financial structure and organization of insurance business, and the different fields of insurance.

Prerequisites & Notes

FIN 320

Credits: 3

FIN 340 - Real Estate Investment

The study of the nature and scope of real estate investment, investment decision process and investment strategy, financial and risk analysis, tax implications, institutional real estate investment and real estate investment trust funds.

Prerequisites & Notes

FIN 320

Credits: 3

FIN 341 - Entrepreneurial Finance

Entrepreneurial finance is the application and adaptation of financial tools and techniques to the planning, funding, operation, valuation and harvesting of entrepreneurial ventures.

Prerequisites & Notes

FIN 320

Credits: 3

FIN 390 - Experimental

A unique and specifically focused course within the general purview of a department which intends to offer it on a "one time only "basis and not as a permanent part of the department's curriculum.

FIN 395 - Workshop

A workshop is a program which is usually of short duration, narrow in scope, often non-traditional in content and format, and on a timely topic.

FIN 398 - Selected Topic

A **Selected Topics** course is a normal, departmental offering which is directly related to the discipline, but because of its specialized nature, may not be able to be offered on a yearly basis by the department.

FIN 409 - Retirement and Estate Planning

In-depth study of the tools and techniques available for use in retirement and estate planning from a personal financial planning perspective. Particular emphasis will be given to retirement cash flow analysis and planning as well as the transfer tax system inherent in estate planning and the methods available for estate management.

Prerequisites & Notes

FIN 321, FIN 329, ACCT 240, ACCT 308 or permission of the instructor

Credits: 3

FIN 410 - Personal Financial Planning Seminar

Synthesize the topics requisite to expertise in personal financial planning as explored principally through case studies. These topics include risk management, investment, insurance and tax planning, and retirement and estate planning.

Prerequisites & Notes

FIN 321, FIN 329, FIN 409, ACCT 240, ACCT 308 or permission of the instructor

Credits: 3

FIN 420 - Finance Seminar

Capital budgeting, cost of capital, capital structure, working capital management and long-term financing.

Prerequisites & Notes

FIN 320 or permission of the instructor

Credits: 3

FIN 421 - Portfolio Theory

Advanced treatment of investment concepts. In-depth analysis of Modern Portfolio Theory, Capital Asset Pricing Model (CAPM) and its extensions, options, interest options, future markets and precious metals.

Prerequisites & Notes

FIN 321

Credits: 3

FIN 427 - International Financial Management

International monetary systems, sources of funds, import and export financing; taxation of multinational corporations, foreign investment decisions; political risk; risk of foreign exchange losses; management of working capital.

Prerequisites & Notes

FIN 320

Credits: 3

FIN 430 - International Banking

Internationalization of U.S. and foreign banks to meet the global financial needs of multi-national activities.

Prerequisites & Notes

FIN 320, FIN 323 is recommended

Credits: 3

FIN 450 - Internship

Supervised placement and research in selected public and private agencies at appropriate institutions.

Prerequisites & Notes

Application and permission of the instructor

Credits: 1 to 12

FIN 490 - Independent Study

In-depth reading and/or research in an area of particular interest to the student, done with the guidance of a faculty member.

Independent Study courses give students the opportunity to pursue research and/or studies that are not part of the university's traditional course offerings. Students work one on one or in small groups with faculty guidance and are typically required to submit a final paper or project as determined by the supervising professor.

Prerequisites & Notes

12 credits of major courses, application, permission of the instructor, departmental chairperson and dean of the college where the study will be conducted

Credits: 1 to 3

FIN 495 - Workshop

A workshop is a program which is usually of short duration, narrow in scope, often non-traditional in content and format, and on a timely topic.

FIN 498 - Selected Topic

A **Selected Topics** course is a normal, departmental offering which is directly related to the discipline, but because of its specialized nature, may not be able to be offered on a yearly basis by the department.

FREN 101 - French Language and Culture I

This course is the first in a three course series which will provide an introduction to the French language.

Credits: 3

FREN 102 - French Language and Culture II

This course is the second in a three course series which will provide an introduction to the French language.

Prerequisites & Notes

FREN 101 or the equivalent.

Credits: 3

FREN 103 - French Language and Culture III

This course is the third in a three course series which will provide an introduction to the French language.

Prerequisites & Notes

FREN 102 or the equivalent

Credits: 3

FREN 139 - University Seminar

University Seminar serves as the entry point to the Slippery Rock University general education program. With its small seminar setting and strong faculty-student interaction, the course promotes intellectual inquiry, critical and creative thinking, and academic excellence. Through varied content, the course introduces students to academic discourse and information literacy while exploring topics such as diversity and inclusion and global awareness. This course will set students along the path to becoming engaged with issues and scholarship important to a 21st century education while they learn about themselves and their place in the world.

Credits: 3

FREN 190 - Experimental

A unique and specifically focused course within the general purview of a department which intends to offer it on a "one time only" basis and not as a permanent part of the department's curriculum.

Credits: 3

FREN 195 - Workshop

A workshop is a program which is usually of short duration, narrow in scope, often non-traditional in content and format, and on a timely topic.

Credits: 3

FREN 198 - Selected Topic

A **Selected Topics** course is a normal, departmental offering which is directly related to the discipline, but because of its specialized nature, may not be able to be offered on a yearly basis by the department.

Credits: 3

FREN 201 - French Conversation 1

A functional course in speaking and writing French, stressing everyday vocabulary and sentence structure. Some grammar review.

Prerequisites & Notes

FREN 103 or the equivalent

Credits: 3

FREN 215 - Topics in French and Francophone Culture

This course provides deeper knowledge of French and Francophone culture by examining selected topics in French and Francophone culture. This course is taught in English.

Credits: 3

FREN 220 - Reading in French

An introduction to reading in French at the intermediate level.

Prerequisites & Notes

FREN 103 or the equivalent

Credits: 3

FREN 290 - Experimental

A unique and specifically focused course within the general purview of a department which intends to offer it on a "one time only" basis and not as a permanent part of the department's curriculum.

Credits: 3

FREN 295 - Workshop

A workshop is a program which is usually of short duration, narrow in scope, often non-traditional in content and format, and on a timely topic.

Credits: 3

FREN 298 - Selected Topic

A **Selected Topics** course is a normal, departmental offering which is directly related to the discipline, but because of its specialized nature, may not be able to be offered on a yearly basis by the department.

Credits: 3

FREN 300 - French Grammar and Composition 1

An intermediate grammar review course emphasizing the basic structure of French.

Prerequisites & Notes

FREN 201 or 220 or the equivalent

Credits: 3

FREN 301 - French Conversation 2

Development of French vocabulary and conversation skills through intensive study of selected theme areas.

Prerequisites & Notes

FREN 201 or FREN 220 or permission of the instructor

Credits: 3

FREN 303 - Professional French

Designed to acquaint the student with formal registers and formulas of communication used in all professional communication in the French-speaking world.

Prerequisites & Notes

FREN 201 or 220 or the equivalent

Credits: 3

FREN 305 - France through the Ages

An advanced course in the study of the development of French civilization from the earliest times to the end of the 19th century.

Prerequisites & Notes

FREN 201 or 220 or the equivalent

Credits: 3

FREN 306 - France and Francophone Identities Today

An exploration of diverse voices, social groups and societies in francophone literatures through works by francophone writers from all over the world. Designed as an introduction to the literatures and cultures of the francophone world, this course considers issues of social status, history, resistance, representation and identity. Taught in French.

Prerequisites & Notes

FREN 201 or FREN 220 or the equivalent

Credits: 3

FREN 315 - French Study Abroad

This course is designed for students who wish to study French/Francophone society firsthand. Students will study the culture, literature, history, art, and other issues concerning the country where the program is offered. Permission of instructor required.

Credits: 3

FREN 320 - Main Currents in French Literature

An introduction to the study of French literature through prose, drama and poetry.

Prerequisites & Notes

FREN 201 or 220 or the equivalent

Credits: 3

FREN 330 - French Literature from the 18th Century to the Present

Representative works and literary movements in French literature from the eighteenth century to the present will be studied.

Prerequisites & Notes

FREN 201 or 220

Credits: 3

FREN 350 - French Linguistics and Phonetics

An introduction to general linguistics and the practical application of phonetics to the study of French. Analysis and practice of the sound system of the foreign language.

Prerequisites & Notes

FREN 201 or FREN 220

Credits: 3

FREN 390 - Experimental

A unique and specifically focused course within the general purview of a department which intends to offer it on a "one time only" basis and not as a permanent part of the department's curriculum.

Credits: 3

FREN 395 - Workshop

Special topics of interest to undergraduates and selected community members.

A workshop is a program which is usually of short duration, narrow in scope, often non-traditional in content and format, and on a timely topic.

Credits: 3

FREN 398 - Selected Topic

A **Selected Topics** course is a normal, departmental offering which is directly related to the discipline, but because of its specialized nature, may not be able to be offered on a yearly basis by the department.

Credits: 3

FREN 400 - French Grammar and Composition 2

An advanced course in the study of French grammar and usage.

Prerequisites & Notes

FREN 300

Credits: 3

FREN 401 - French Conversation 3

This course will provide the opportunity for advanced students to improve their aural comprehension and their conversation abilities in French.

Prerequisites & Notes

FREN 300 and FREN 301

Credits: 3

FREN 402 - Eighteenth-Century Novel

A study of the Age of Enlightenment as reflected in the novel.

Prerequisites & Notes

FREN 301 and (FREN 300 or FREN 303 or FREN 305 or FREN 306 or FREN 320 or FREN 330 or FREN 350)

Credits: 3

FREN 403 - Nineteenth-Century French Literature

Readings from the romantic, realistic and naturalistic movements.

Prerequisites & Notes

FREN 301 and (FREN 300 or FREN 303 or FREN 305 or FREN 306 or FREN 320 or FREN 330 or FREN 350)

Credits: 3

FREN 404 - Exploring French Culture through Media

A study of various aspects of modern French literature.

Prerequisites & Notes

FREN 301 and (FREN 300 or FREN 303 or FREN 305 or FREN 306 or FREN 320 or FREN 330 or FREN 350)

Credits: 3

FREN 411 - Literature of the Classical Period

A study of French Classicism, emphasizing the plays of Corneille, Moliere and Racine.

Prerequisites & Notes

FREN 301 and (FREN 300 or FREN 303 or FREN 305 or FREN 306 or FREN 320 or FREN 330 or FREN 350)

Credits: 3

FREN 430 - French Literature 12th to 17th Century

Representative works and literary movements in French Literature from the 12th through the 17th centuries will be studied.

Prerequisites & Notes

FREN300 or equivalent

Credits: 3

FREN 490 - Independent Study

Students have an opportunity to study selected areas in greater concentration.

Independent Study courses give students the opportunity to pursue research and/or studies that are not part of the university's traditional course offerings. Students work one on one or in small groups with faculty guidance and are typically required to submit a final paper or project as determined by the supervising professor.

Prerequisites & Notes

Permission of the instructor, departmental chairperson, and dean of the college where the study will be conducted

Credits: 1 to 3

FREN 495 - Workshop

A workshop is a program which is usually of short duration, narrow in scope, often non-traditional in content and format, and on a timely topic.

Credits: 3

FREN 498 - Selected Topic

A **Selected Topics** course is a normal, departmental offering which is directly related to the discipline, but because of its specialized nature, may not be able to be offered on a yearly basis by the department.

Credits: 3

GERM 101 - German Language and Culture I

This course is the first in a three course series which will provide an introduction to the German language.

Credits: 3

GERM 102 - German Language and Culture II

This course is the second in a three course series which will provide an introduction to the German language.

Prerequisites & Notes

GERM 101 or the equivalent

Credits: 3

GERM 103 - German Language and Culture III

This course is a third in a three course series which will provide an introduction to the German language.

Prerequisites & Notes

GERM 102 or the equivalent

Credits: 3

GERM 139 - University Seminar

University Seminar serves as the entry point to the Slippery Rock University general education program. With its small seminar setting and strong faculty-student interaction, the course promotes intellectual inquiry, critical and creative thinking, and academic excellence. Through varied content, the course introduces students to academic discourse and information literacy while exploring topics such as diversity and inclusion and global awareness. This course will set students along the path to becoming engaged with issues and scholarship important to a 21st century education while they learn about themselves and their place in the world.

Credits: 3

GERM 190 - Experimental

A unique and specifically focused course within the general purview of a department which intends to offer it on a "one time only" basis and not as a permanent part of the department's curriculum.

Credits: 3

GERM 195 - Workshop

A workshop is a program which is usually of short duration, narrow in scope, often non-traditional in content and format, and on a timely topic.

Credits: 3

GERM 198 - Selected Topic

A **Selected Topics** course is a normal, departmental offering which is directly related to the discipline, but because of its specialized nature, may not be able to be offered on a yearly basis by the department.

Credits: 3

GERM 201 - Communication in German

A functional course in speaking and writing German, stressing everyday vocabulary and sentence structure.

Prerequisites & Notes

GERM 103 or the equivalent

Credits: 3

GERM 210 - German Literature in Translation

A study of representative German literary works, emphasizing the persons and ideas which have influenced German foreign literatures. The course will be given in English; no knowledge of German required. For non majors.

Credits: 3

GERM 220 - Reading in German

An introduction reading in German at the intermediate level.

Prerequisites & Notes

GERM 103 or the equivalent

Credits: 3

GERM 257 - German Immersion

This course, offered in Germany, introduces students first-hand to German culture, including aspects of everyday life in Germany. Course facilitates understanding of Germany's history and civilization through study of important monuments and urban design.

Prerequisites & Notes

GERM103 or permission of instructor

Credits: 3

GERM 290 - Experimental

A unique and specifically focused course within the general purview of a department which intends to offer it on a "one time only" basis and not as a permanent part of the department's curriculum.

Credits: 3

GERM 295 - Workshop

A workshop is a program which is usually of short duration, narrow in scope, often non-traditional in content and format, and on a timely topic.

Credits: 3

GERM 298 - Selected Topic

A **Selected Topics** course is a normal, departmental offering which is directly related to the discipline, but because of its specialized nature, may not be able to be offered on a yearly basis by the department.

Credits: 3

GERM 300 - German Grammar Review

An intermediate grammar review course, emphasizing the basic structures of German.

Prerequisites & Notes

GERM 201 or 220 or the equivalent

Credits: 3

GERM 303 - Business German

A study of the German language as related to business and commerce. A consideration of the form and language of the business letter in German.

Prerequisites & Notes

GERM 201 or 220 or the equivalent

Credits: 3

GERM 305 - German Civilization

A study of the development of German civilization from its earliest beginnings to its modern times. Course is for majors and non-majors.

Prerequisites & Notes

GERM 201 or 220 or the equivalent

Credits: 3

GERM 306 - Modern German Civilization

A study of the civilization of German-speaking areas in the twentieth century.

Prerequisites & Notes

GERM 201 or 220 or the equivalent

Credits: 3

GERM 307 - German Conversation and Composition 1

Course developing student abilities in listening, speaking and writing German. Emphasis is on discussions of student compositions on a variety of issues relating to modern Germany.

Prerequisites & Notes

GERM220 or permission of instructor

Credits: 3

GERM 308 - German Conversation and Composition 2

Course developing student abilities in listening, speaking and writing German. Emphasis is on discussions of student compositions on a variety of issues relating to modern German.

Prerequisites & Notes

GERM307 or permission of instructor

Credits: 3

GERM 320 - Main Currents in German Literature

An introduction to the study of German literature through prose, drama, and poetry.

Prerequisites & Notes

GERM 201 or GERM 220 or equivalent

Credits: 3

GERM 350 - German Linguistics and Phonetics

An introduction to general linguistics and the practical application of linguistics to the study of German, Analysis and practice of the sound system of the foreign language.

Prerequisites & Notes

GERM 201 or GERM 220

Credits: 3

GERM 390 - Experimental

A unique and specifically focused course within the general purview of a department which intends to offer it on a "one time only" basis and not as a permanent part of the department's curriculum.

Credits: 3

GERM 395 - Workshop

A workshop is a program which is usually of short duration, narrow in scope, often non-traditional in content and format, and on a timely topic.

Credits: 3

GERM 398 - Selected Topic

A **Selected Topics** course is a normal, departmental offering which is directly related to the discipline, but because of its specialized nature, may not be able to be offered on a yearly basis by the department.

Credits: 3

GERM 400 - Advanced Grammar

An advanced course in the study of German grammar and usage.

Prerequisites & Notes

GERM300

Credits: 3

GERM 411 - Contemporary German Literature

A study of the outstanding authors writing in German in the twentieth century.

Prerequisites & Notes

GERM 300 and (GERM 303 or GERM 305 or GERM 306 or GERM 307 or GERM 308 or GERM 320 or GERM 350)

Credits: 3

GERM 490 - Independent Study

Students have the opportunity to study selected areas in greater concentration.

Independent Study courses give students the opportunity to pursue research and/or studies that are not part of the university's traditional course offerings. Students work one on one or in small groups with faculty guidance and are typically required to submit a final paper or project as determined by the supervising professor.

Prerequisites & Notes

Permission of the instructor, departmental chairperson, and dean of the college where the study will be conducted.

Credits: 1 to 3

GERM 495 - Workshop

A workshop is a program which is usually of short duration, narrow in scope, often non-traditional in content and format, and on a timely topic.

Credits: 3

GERM 498 - Selected Topic

A **Selected Topics** course is a normal, departmental offering which is directly related to the discipline, but because of its specialized nature, may not be able to be offered on a yearly basis by the department.

Credits: 3

GERO 139 - University Seminar

University Seminar serves as the entry point to the Slippery Rock University general education program. With its small seminar setting and strong faculty-student interaction, the course promotes intellectual inquiry, critical and creative thinking, and academic excellence. Through varied content, the course introduces students to academic discourse and information literacy while exploring topics such as diversity and inclusion and global awareness. This course will set students along the path to becoming engaged with issues and scholarship important to a 21st century education while they learn about themselves and their place in the world.

Credits: 3

GERO 190 - Experimental

A unique and specifically focused course within the general purview of a department which intends to offer it on a "one time only" basis and not as a permanent part of the department's curriculum.

GERO 195 - Workshop

A workshop is a program which is usually of short duration, narrow in scope, often non-traditional in content and format, and on a timely topic.

GERO 198 - Selected Topic

A **Selected Topics** course is a normal, departmental offering which is directly related to the discipline, but because of its specialized nature, may not be able to be offered on a yearly basis by the department.

GERO 265 - Aging and the Older Person

Introduction to the interdisciplinary study of gerontology as a social, behavioral and biological science. A prerequisite to courses in gerontology and aging. Women and Aging examines the effects of women growing older in a changing society. Social, psychological, physical, economic, cultural, and political implications will be discussed, including health concerns, changing roles, and discrimination.

Credits: 3

GERO 290 - Experimental

A unique and specifically focused course within the general purview of a department which intends to offer it on a "one time only "basis and not as a permanent part of the department's curriculum.

GERO 295 - Workshop

A workshop is a program which is usually of short duration, narrow in scope, often non-traditional in content and format, and on a timely topic.

GERO 298 - Selected Topics

A **Selected Topics** course is a normal, departmental offering which is directly related to the discipline, but because of its specialized nature, may not be able to be offered on a yearly basis by the department.

GERO 390 - Experimental

A unique and specifically focused course within the general purview of a department which intends to offer it on a "one time only "basis and not as a permanent part of the department's curriculum.

GERO 395 - Workshop

A workshop is a program which is usually of short duration, narrow in scope, often non-traditional in content and format, and on a timely topic.

GERO 398 - Selected Topic

A **Selected Topics** course is a normal, departmental offering which is directly related to the discipline, but because of its specialized nature, may not be able to be offered on a yearly basis by the department.

GERO 414 - Death and Dying

This course is an introduction to the study of death, dying and bereavement which utilizes a multidisciplinary approach. This course is aimed at sensitizing students to the subject of dying, death and bereavement, aiding students in adjusting to the death of a significant other, helping students examine their feeling and reactions to death and grieving and introducing students to diverse perspectives. This course is offered on the undergraduate and graduate (GERO 644) levels.

Credits: 3

GERO 425 - Women and Aging

Examines the effects of women growing older in a changing society. Social, psychological, physical, economic, cultural, and political implications will be discussed, including health concerns, changing roles, and discrimination.

Credits: 3

GERO 450 - Gerontology Internship

Individually designed experiential learning intended to provide the student with an opportunity for observation and participation in a wide range of gerontological activities in an approved institution or agency setting.

Prerequisites & Notes

Nine credits of approved gerontology coursework or permission of the gerontology coordinator

Credits: 3 to 12

GERO 465 - Seminar in Gerontology

An interdisciplinary investigation of selected facets of gerontology. Course content is drawn from the biological, behavioral, and social sciences, and it will include a consideration of current issues in such areas as mental health, housing, economics, transportation, preventive health program, long-term care, and leisure work activities.

Prerequisites & Notes

GERO 265 or equivalent work experience; additional coursework in gerontology is desirable

Credits: 3

GERO 490 - Independent Study

A rigorous investigation of a topic of relevance to gerontology not covered in detail in existing courses. Independent Study courses give students the opportunity to pursue research and/or studies that are not part of the university's traditional course offerings. Students work one on one or in small groups with faculty guidance and are typically required to submit a final paper or project as determined by the supervising professor.

Prerequisites & Notes

Permission of gerontology coordinator, instructor, departmental chairperson and dean of the college where the study will be conducted

Credits: 1 to 3

GERO 495 - Workshop

A workshop is a program which is usually of short duration, narrow in scope, often non-traditional in content and format, and on a timely topic.

GERO 498 - Selected Topic

A **Selected Topics** course is a normal, departmental offering which is directly related to the discipline, but because of its specialized nature, may not be able to be offered on a yearly basis by the department.

GERO 595 - Workshop

A workshop is a program which is usually of short duration, narrow in scope, often non-traditional in content and format, and on a timely topic.

Credits: 3

GERO 598 - Selected Topic

A **Selected Topics** course is a normal, departmental offering which is directly related to the discipline, but because of its specialized nature, may not be able to be offered on a yearly basis by the department.

Credits: 3

GES 100 - Discover Geography

An inquiry course that examines why people live differently in different parts of the world, with respect to political and economic systems, culture, demographics, and relationships with the natural world. This course introduces students to topics and methods of human geography, and enables students to apply them to addressing important global, regional, and local social issues.

Credits: 3

GES 105 - World Regional Geography

This course provides an introduction to the regional concept, classification of major culture regions throughout the world and a description of the physiocultural character of those regions.

Credits: 3

GES 115 - Introduction to Geospatial Technologies

Provides fundamental map concepts with an emphasis on using and understanding an atlas, making and interpreting computer maps, and reading and interpreting topographic maps.

Prerequisites & Notes

Provide fundamental concepts and basic skills regarding map use and interpretation. Overview of major geospatial technologies, including geographic information systems, global positioning systems, spatial visualization, and remote sensing.

Credits: 3

GES 135 - Introduction to Environmental Problems

An introduction to some of the more crucial environmental problems and alternative solutions that are available.

Credits: 3

GES 139 - University Seminar

University Seminar serves as the entry point to the Slippery Rock University general education program. With its small seminar setting and strong faculty-student interaction, the course promotes intellectual inquiry, critical and creative thinking, and academic excellence. Through varied content, the course introduces students to academic discourse and information literacy while exploring topics such as diversity and inclusion and global awareness. This course will set

students along the path to becoming engaged with issues and scholarship important to a 21st century education while they learn about themselves and their place in the world.

Credits: 3

GES 150 - The Natural Environment

An introduction to interrelationships among the physical elements of the environment, including the study of vegetation, soils and landforms.

Prerequisites & Notes

Notes: This course is only for students with a major or minor in Geography.

Credits: 3

GES 190 - Experimental

A unique and specifically focused course within the general purview of a department which intends to offer it on a "one time only" basis and not as a permanent part of the department's curriculum.

GES 195 - Workshop

A workshop is a program which is usually of short duration, narrow in scope, often non-traditional in content and format, and on a timely topic.

GES 198 - Selected Topic

A **Selected Topics** course is a normal, departmental offering which is directly related to the discipline, but because of its specialized nature, may not be able to be offered on a yearly basis by the department.

GES 201 - Latin America and the Caribbean

Consideration is given to physical, historical, cultural, political, and economic patterns in Latin America and the Caribbean.

Credits: 3

GES 202 - United States and Canada

An introductory course that surveys the patterns, connections, and evolution of environments, cultures, and economies of the U.S. and Canada.

Credits: 3

GES 204 - Post-Soviet Union

Study of the Soviet Union and Soviet-bloc nations with emphasis on economic, physical, political, and cultural aspects.

Credits: 3

GES 205 - Cultural Geography

This course serves as an introduction to human, social and cultural geography. Course content will cover cultural landscapes and place identity, discourses and cultural interpretation of the environment, the cultural and spatial impacts of demographic and economic changes, and cultural contestation over space and place.

Credits: 3

GES 215 - Planning for Sustainable Communities

An introduction to methods for enhancing sustainability in social and physical planning for rural areas, towns, and cities.

Credits: 3

GES 220 - General Methods of Fieldwork

A survey of how field research is done in geography, including designing a research question, data collection techniques, and qualitative and quantitative data analysis.

Prerequisites & Notes

GES 115

Credits: 3

GES 235 - Conservation

An examination of the earth's complex resource base which places special emphasis on the geographic location of resources and on conservation/preservation practices.

Prerequisites & Notes

GES 135 or permission of the instructor

Credits: 3

GES 242 - Geography of Religion

The distribution and arrangement of world religions, giving consideration to the comparative influence of religion on the cultural landscape and on regional development.

Credits: 3

GES 245 - Population and Resources

Basic demographic principles and their relationship to regional development.

Credits: 3

GES 290 - Experimental

A unique and specifically focused course within the general purview of a department which intends to offer it on a "one time only" basis and not as a permanent part of the department's curriculum.

GES 295 - Workshop

A workshop is a program which is usually of short duration, narrow in scope, often non-traditional in content and format, and on a timely topic.

GES 298 - Selected Topic

A **Selected Topics** course is a normal, departmental offering which is directly related to the discipline, but because of its specialized nature, may not be able to be offered on a yearly basis by the department.

GES 301 - Geography of Rural Areas

Analyzes the structure and primary functional patterns of rural areas, with an emphasis on agricultural and industrial land use, problems of rural development, and population shifts.

Credits: 3

GES 303 - Asia

A survey of the major regions of Asia emphasizing their physical, cultural, and political characteristics. Several countries are selected for special emphasis.

Credits: 3

GES 305 - Environmental Economic Geography

Environmental economic geography takes a geographical approach to the interface between nature and the economy, with an emphasis on patterns and trends in environmental services and resource management.

Prerequisites & Notes

GES 362 or consent of instructor

Credits: 3

GES 307 - Australia

This course will introduce students to the environments and peoples of Australia. Australia's natural environment, Aboriginal and white culture, economy, politics, and major current public issues will be covered.

Credits: 3

GES 308 - Europe

The evolution of nations, the cultural landscape, and the spatial-economic organization of Europe.

Credits: 3

GES 309 - Africa

This course surveys the patterns, connections, and evolution of environments, cultures, nations, and economies of Africa, with an emphasis on maps, regions, and images.

Credits: 3

GES 310 - Urban Geography

The course is designed to provide insights into the nature of cities and smaller urban places.

Credits: 3

GES 315 - Cartography I

Basic elements of computer-assisted thematic map design are discussed. Cartographic projects serve as a means of applying major concepts such as map projections, data classification, color theory, and qualitative/quantitative symbology. Includes a lab.

Prerequisites & Notes

GES 115

Credits: 3

GES 321 - Introduction to UAS for Remote Sensing and Monitoring

This course introduces students to Unmanned Aerial Systems and their use in acquisition of remotely sensed data. Course content will cover topics necessary for students to sit for the FAA Part 107 Commercial Remote Pilot Certification examination. Students will also be introduced to basic concepts of remote sensing and aerial imaging, UAS mission planning and spatial data processing.

Prerequisites & Notes

Prerequisites: GES 115 or permission of instructor.

Credits: 3

GES 324 - Environmental Law and Policy

The study of political control of the environment. Focus on the roles played by individuals and groups.

Credits: 3

GES 325 - Introduction to Geographic Information Science

This course introduces students to integrated computer tools for the capture, storage, manipulation, analysis, and printout of earth-referenced data. Computers are used to store maps, analyze maps, and produce new maps along with their attributes to address societal issues. Includes a lab. Cross listed as GES 525.

Prerequisites & Notes

GES 115

Credits: 3

GES 330 - Political Geography

The effects of politics on geography and the effects of geographic factors on politics.

Credits: 3

GES 331 - Economic Geography

Examines human use and economic organization of the earth.

Credits: 3

GES 344 - Environmental Justice

This course will teach students to evaluate situations as just or unjust according to well-understood principles of environmental justice. Students will apply this analysis to important environmental justice topics such as unequal distribution of environmental harms and resources, treatment of indigenous people, animal and ecosystem rights and international environmental negotiations.

Credits: 3

GES 345 - Population Analysis

A study of the techniques of population analysis with respect to growth, distribution, fertility, migration, and other demographic characteristics.

Prerequisites & Notes

Some background in algebra or statistics

Credits: 3

GES 355 - Earth's Changing Climate

This course examines the interrelationship between climate and human activities. We will study the processes that control Earth's climate with a focus on the flow of energy through the Earth system and a study of the interactions between the atmosphere, the ocean, and the land surface. We will investigate climate change on variable time scales with a focus on how climate affects humans and the environment. Further, we will examine which factors influence society's decision in response to climate change.

Credits: 3

GES 356 - Earth's Changing Climate Laboratory

This course examines Earth's climate changes through an investigation of climate data and climate models. We will investigate climate change on variable time scales and in different geographic regions with a quantitative focus.

Prerequisites & Notes

EGEO121; Co-requisite G&ES355

Credits: 1

GES 361 - Gender & the Environment

Gender and the Environment will explore the ways that human interaction with the natural environment is shaped by gender roles and gender inequality in cultures around the world. Topics covered will include gender differences in resource access, connections between environmental degradation and women's oppression, cultural metaphors that link nature and gender (e.g. "mother earth") and the way that gender shapes environmental movements.

Prerequisites & Notes

One other Geography or Women's Studies course.

Credits: 3

GES 362 - Applications in Sustainability

This course explores the history of the sustainability movement, and the current and emerging science and practices of sustainability. Students will also be introduced to the research tools and methods needed to evaluate the sustainability of energy systems, technology, the built environment and environmental regulations and policy.

Credits: 3

GES 363 - Energy and Society

Students will develop a working knowledge of energy technologies and policies, and their impacts on both the environment and society. Discussions and case studies will include analysis of current and emerging energy sources and consumption.

Prerequisites & Notes

GES 362 or consent of instructor

Credits: 3

GES 375 - Geography of Intolerance

Analyzes cross-culturally the impact on resource allocation and the spatial implications of gender, racial, religious, political and class discrimination.

Credits: 3

GES 390 - Experimental

A unique and specifically focused course within the general purview of a department which intends to offer it on a "one time only" basis and not as a permanent part of the department's curriculum.

GES 395 - Workshop

A workshop is a program which is usually of short duration, narrow in scope, often non-traditional in content and format, and on a timely topic.

GES 398 - Selected Topic

A **Selected Topics** course is a normal, departmental offering which is directly related to the discipline, but because of its specialized nature, may not be able to be offered on a yearly basis by the department.

GES 410 - Remote Sensing

Covers the electromagnetic and thermal properties of earth objects, principles and operations of sensors, and the practical applications of remote sensing. Lectures will be supplemented with exercises requiring computer processing of satellite data.

Credits: 3

GES 415 - Cartography II

Advanced issues and theory of cartographic design are discussed. Cartographic applications include flow maps, bivariate statistical mapping, cartograms, interactive maps, and map animation. Includes a lab.

Prerequisites & Notes

GES 315 or permission of the instructor

Credits: 3

GES 420 - Historical Geography of Anglo-America

A study of settlement patterns, land utilization, and sequent occupancies for selected periods since 1500. A student is expected to have background in geography and American history.

Credits: 3

GES 425 - Advanced Geographic Information Systems

This course investigates and applies advanced Geographic Information Systems (GIS) techniques. Students will learn current techniques for the collection, evaluation, input, analysis, and output of spatial data with various GIS tools. Students will apply these techniques to real world problems in areas such as environmental monitoring, environmental modeling, urban planning, and economic location. Includes a lab.

Prerequisites & Notes

GES 315 and GES 325

Credits: 3

GES 426 - Environmental Modeling

Environmental models quantify processes such as runoff generation, water pollution, erosion, landscape change, and change of biodiversity. In this course, these models will be applied to real-world examples. Includes a lab.

Prerequisites & Notes

GES 325

Credits: 3

GES 435 - Preservation Planning

A study of the American preservation movement as it relates to features of the cultural landscape. The origin and diffusion of building styles and the methods and problems associated with their preservation are emphasized.

Credits: 3

GES 444 - World Environmental Cultures

Students will explore and evaluate geographic and environmental ideas from western and non-western cultures.

Credits: 3

GES 445 - Regional Planning

Deals with planning for the future of regions that are larger than any single local government. Consideration is given to economic development, land use, transportation, and other regional planning concerns.

Prerequisites & Notes

GES 215

Credits: 3

GES 450 - Internship

Supervised placement and field experience in a selected public or private agency.

Prerequisites & Notes

Permission of the instructor

Credits: 1 to 12

GES 469 - Field Investigations in the Geosciences

This course will provide students with the opportunity to practice the nature of fieldwork by observing, interpreting, collecting data and analyzing physical and human landscapes, and the natural, cultural and economic forces that are shaping them.

Course is cross-listed with EGEO469

Credits: 1 to 3

GES 489 - Applied Geospatial Technologies

Students use the scientific method in selecting a topic, collecting data in the field, analyzing these data, and preparing a formal paper.

Prerequisites & Notes

Permission of the instructor

Credits: 3

GES 490 - Independent Study

Independent Study courses give students the opportunity to pursue research and/or studies that are not part of the university's traditional course offerings. Students work one on one or in small groups with faculty guidance and are typically required to submit a final paper or project as determined by the supervising professor.

Credits: 3

GES 495 - Workshop

A workshop is a program which is usually of short duration, narrow in scope, often non-traditional in content and format, and on a timely topic.

GES 498 - Selected Topics

The in-depth examination of a specific topic. The topic selected and its treatment depend on the instructor.

A **Selected Topics** course is a normal, departmental offering which is directly related to the discipline, but because of its specialized nature, may not be able to be offered on a yearly basis by the department.

Credits: 1 to 3

GES 525 - Introduction to Geographic Information Systems

This course introduces students to digital techniques for the capture, storage, manipulation, analysis, and visualization of earth-referenced data. Computers are used to store maps, analyze maps, and produce new maps along with their attributes to address societal issues. Includes a lab. Students will be introduced to data collection through global positioning technology and remote sensing, data management and analysis through Geographic Information systems, and data visualization through a range of platforms. Graduate students will produce a professional portfolio and databases that highlight techniques used in the class. Includes lab.

Credits: 3

GES 590 - Experimental

A unique and specifically focused course within the general purview of a department which intends to offer it on a "one time only" basis and not as a permanent part of the department's curriculum.

Credits: 3

GES 595 - Workshop

A workshop is a program which is usually of short duration, narrow in scope, often non-traditional in content and format, and on a timely topic.

Credits: 3

GES 598 - Selected Topic

A **Selected Topics** course is a normal, departmental offering which is directly related to the discipline, but because of its specialized nature, may not be able to be offered on a yearly basis by the department.

Credits: 3

GNDR 115 - Introduction to Gender Studies

Introduction to Gender Studies is an interdisciplinary course that offers a foundation for an intersectional analyses of gender within the context of systems and structures of power and oppression.

Credits: 3

GNDR 120 - Introduction to the Study of Masculinities

This course proposes to introduce and explore the topic of masculinity as a subject for critical study. In the course, students will read about and discuss how masculinities are constructed, presented and reproduced in media and popular culture. This course is meant for and open to everyone interested in taking a critical approach to the study of gender in societies, with specific focus on how (especially American) masculinities shape and are shaped by identity, culture, media, war, politics and economics.

Prerequisites & Notes

None

Credits: 3

GNDR 139 - University Seminar

University Seminar serves as the entry point to the Slippery Rock University general education program. With its small seminar setting and strong faculty-student interaction, the course promotes intellectual inquiry, critical and creative thinking, and academic excellence. Through varied content, the course introduces students to academic discourse and information literacy while exploring topics such as diversity and inclusion and global awareness. This course will set students along the path to becoming engaged with issues and scholarship important to a 21st century education while they learn about themselves and their place in the world.

Credits: 3

GNDR 190 - Experimental

A unique and specifically focused course within the general purview of a department which intends to offer it on a "one time only" basis and not as a permanent part of the department's curriculum.

GNDR 195 - Workshop

A workshop is a program which is usually of short duration, narrow in scope, often non-traditional in content and format, and on a timely topic.

GNDR 198 - Selected Topic

A **Selected Topics** course is a normal, departmental offering which is directly related to the discipline, but because of its specialized nature, may not be able to be offered on a yearly basis by the department.

GNDR 290 - Experimental

A unique and specifically focused course within the general purview of a department which intends to offer it on a "one time only" basis and not as a permanent part of the department's curriculum.

GNDR 295 - Workshop

A workshop is a program which is usually of short duration, narrow in scope, often non-traditional in content and format, and on a timely topic.

GNDR 298 - Selected Topic

A **Selected Topics** course is a normal, departmental offering which is directly related to the discipline, but because of its specialized nature, may not be able to be offered on a yearly basis by the department.

GNDR 390 - Experimental

A unique and specifically focused course within the general purview of a department which intends to offer it on a "one time only" basis and not as a permanent part of the department's curriculum.

GNDR 395 - Workshop

A workshop is a program which is usually of short duration, narrow in scope, often non-traditional in content and format, and on a timely topic.

GNDR 398 - Selected Topic

A **Selected Topics** course is a normal, departmental offering which is directly related to the discipline, but because of its specialized nature, may not be able to be offered on a yearly basis by the department.

GNDR 415 - Feminist Perspectives in the Disciplines

This course will explore feminist approaches to pedagogy and research in the humanities, social sciences, and natural sciences, highlighting how such approaches reshape and redirect the ways knowledge is constructed as well as the attendant, transformed results.

Prerequisites & Notes

Prefer to have students with some background in women's studies)

Credits: 3

GNDR 450 - Internship

Professional experiences, such as working with the Girl Scouts or state National Organization for Women (NOW), or working in a women's center or abuse/sexual assault center, that will allow students to either apply or function within a feminist framework to understand the complexity of women's lives and contribute to women's opportunities.

Prerequisites & Notes

Completion of at least six credits of coursework approved for the women's studies minor

Credits: 1 to 12

GNDR 490 - Independent Study

Independent Study courses give students the opportunity to pursue research and/or studies that are not part of the university's traditional course offerings. Students work one on one or in small groups with faculty guidance and are typically required to submit a final paper or project as determined by the supervising professor.

GNDR 495 - Workshop

A workshop is a program which is usually of short duration, narrow in scope, often non-traditional in content and format, and on a timely topic.

GNDR 498 - Selected Topic

A **Selected Topics** course is a normal, departmental offering which is directly related to the discipline, but because of its specialized nature, may not be able to be offered on a yearly basis by the department.

Credits: 1 to 3

HCAM 139 - University Seminar

University Seminar serves as the entry point to the Slippery Rock University general education program. With its small seminar setting and strong faculty-student interaction, the course promotes intellectual inquiry, critical and creative thinking, and academic excellence. Through varied content, the course introduces students to academic discourse and information literacy while exploring topics such as diversity and inclusion and global awareness. This course will set students along the path to becoming engaged with issues and scholarship important to a 21st century education while they learn about themselves and their place in the world.

Credits: 3

HCAM 190 - Experimental

A unique and specifically focused course within the general purview of a department which intends to offer it on a "one time only" basis and not as a permanent part of the department's curriculum.

Prerequisites & Notes

None

Credits: 1 to 3

HCAM 195 - Workshop

A workshop is a program which is usually of short duration, narrow in scope, often non-traditional in content and format, and on a timely topic.

Credits: 3

HCAM 198 - Selected Topics

A **Selected Topics** course is a normal, departmental offering which is directly related to the discipline, but because of its specialized nature, may not be able to be offered on a yearly basis by the department.

Credits: 3

HCAM 230 - The US Healthcare System

This course offers an overview of the U.S. healthcare delivery system, its policy makers, values, ethics, and other issues that confront it. It focuses on the ever-changing components of the healthcare system and on the technical, economic, political, ethical, and social forces responsible for those changes. The roles of governmental and professional agencies and organizations are presented. The organization and delivery of healthcare services in all its settings are also covered. Opportunities are provided to students for social awareness, civic responsibility, and personal development as these relate to the allocation and use of healthcare resources. This course equips the student to become an informed healthcare consumer and introduces them to healthcare as an option for employment. The course is open to all majors.

Prerequisites & Notes

None

Credits: 3

HCAM 250 - Medical Terminology for Healthcare Administrators

This course is designed to provide students with a basic understanding of the language of medicine. Emphasis is placed on basic medical word construction and medical language derivation related to health care.

Prerequisites & Notes

COURSE IS CROSS LISTED AS ERS 250

Credits: 3

HCAM 275 - Health Care Legal & Ethical Foundations

This course connects theoretical foundations of ethics with practical legal issues facing health care leaders. The course will define the role of the health care provider, payer, consumers, delivery systems, and regulatory bodies in addressing

challenges presented by health care law and ethics.

Prerequisites & Notes

None.

Credits: 3

HCAM 290 - Experimental

A unique and specifically focused course within the general purview of a department which intends to offer it on a "one time only" basis and not as a permanent part of the department's curriculum.

Prerequisites & Notes

None

Credits: 1 to 3

HCAM 295 - Workshop

A workshop is a program which is usually of short duration, narrow in scope, often non-traditional in content and format, and on a timely topic.

Credits: 3

HCAM 298 - Selected Topics

A **Selected Topics** course is a normal, departmental offering which is directly related to the discipline, but because of its specialized nature, may not be able to be offered on a yearly basis by the department.

Credits: 3

HCAM 300 - Healthcare Systems: Global Perspectives and Analysis

This course will examine health care systems from other countries in contrast to the United States system of health care delivery and financing. Students will explore global perspectives about different forms of healthcare systems. Comparisons of different healthcare systems' infrastructures, finance systems, level of government involvement, and key metrics of health outcomes will be discussed along with the interconnected sociopolitical issues across diverse populations.

Prerequisites & Notes

None

Credits: 3

HCAM 332 - US Health Care Policy

This course provides an overview of US health care policy in the postwar period. The course will examine the problems of health care costs, access, and quality in depth, consider alternative approaches to health care reform and

use a comparative method to examine the health policies of other advanced industrialized countries. In addition, the course aims to introduce students to health policy analysis as an applied social science discipline. No prerequisite is required but students should be strongly encouraged to take HCAM 230 (The US Health Care System) before taking this course.

Prerequisites & Notes

None

Credits: 3

HCAM 335 - Current Topics in Health Care

This course examines current topics in healthcare from the interests of various constituencies and organizations. It is designed to introduce students to the identification and study of current economic, regulatory, or operational issues and emerging trends impacting the healthcare industry. Matters of healthcare policy, healthcare reform, current clinical and non-clinical healthcare developments, policy process, and advocacy will also be examined. The course presents a critical analysis of selected topics of interest to the health services management major as well as other students interested in healthcare.

Prerequisites & Notes

This course is open to all majors with junior standing.

Credits: 3

HCAM 360 - Healthcare Organizational Dynamics

This course introduces concepts associated with organizational dynamics in the healthcare industry. Students will examine content from individual, team, and organizational perspectives. Organizational dynamics are examined to provide a better understanding of how to deliver value within a competitive and changing healthcare industry.

Prerequisites & Notes

HCAM 230

Credits: 3

HCAM 365 - Managed Care & Insurance

This course examines Managed Care Organizations and plans, Consumer Directed Health Care plans and Health Care Exchanges under the Affordable Care Act. The influence of managed health care and the various forms of health care insurance on the organization and delivery of health services in the United States are explored.

Prerequisites & Notes

HCAM 230 and (HCAM 360 or MGMT 351) (may be taken concurrently with HCAM 360 or MGMT 351). (HCAM majors are required to take HCAM 360).

Credits: 3

HCAM 380 - Healthcare Value-Based Reimbursement Systems

This course examines payment reform in the healthcare industry, focusing on the shift to value-based reimbursement systems. Students will gain a basic understanding of data sources, the requirements to prepare data for analysis to develop practical applied insights, and the importance of integrating such into healthcare organizational workflows. Students will be able to apply their understanding of the challenges and requirements of performance metrics and systems information in a healthcare environment and learn methods used to improve value in healthcare services through leveraging data and information.

Prerequisites & Notes

Prerequisites: HCAM 230 and HCAM 365

Credits: 3

HCAM 390 - Experimental

A unique and specifically focused course within the general purview of a department which intends to offer it on a "one time only" basis and not as a permanent part of the department's curriculum.

Prerequisites & Notes

None

Credits: 1 to 3

HCAM 395 - Workshop

A workshop is a program which is usually of short duration, narrow in scope, often non-traditional in content and format, and on a timely topic.

Credits: 3

HCAM 398 - Selected Topics

A **Selected Topics** course is a normal, departmental offering which is directly related to the discipline, but because of its specialized nature, may not be able to be offered on a yearly basis by the department.

Credits: 3

HCAM 400 - Legal Environment of Healthcare

This course acquaints future healthcare managers with legal issues needed to deal with the government, with patients, and with healthcare employees and contractors. Because the course is taught from the manager's perspective, rather than the lawyer's perspective, the emphasis is on surveying a wide variety of legal concepts, terms, and common-sense tips for avoiding legal trouble, rather than on attorney-level legal analysis.

Prerequisites & Notes

ACCT 340 and HCAM 275

Credits: 3

HCAM 405 - Health Care Quality and Process Improvement

This course examines a systems approach to continuous improvement processes in healthcare settings. Quality and process concepts and theories examined in this course are guided by data and process at the unit and organization levels that reach beyond regulatory and accreditation compliance.

Prerequisites & Notes

HCAM 230 and (HCAM 360 or MGMT 351) and HCAM 365 (may be taken concurrently with HCAM 365). (HCAM majors are required to take HCAM 360).

Credits: 3

HCAM 410 - Strategic Leadership in Health Care Organizations

This course will examine leadership principles necessary to be effective in a continuously changing health care industry. Concepts covered include cultural competency, patient and family centered care, community outreach, coalition building, teamwork effectiveness, and leading within an environment of change in the US healthcare system.

Prerequisites & Notes

HCAM 230 and (HCAM 360 or MGMT 351)

Credits: 3

HCAM 415 - Marketing for Health Care Organizations

This course covers the application of marketing concepts, tools, and techniques to marketing problems, emphasizing strategic thinking and analysis in a healthcare environment. Students will gain a perspective on how a healthcare marketing function links within the overall business system.

Prerequisites & Notes

HCAM 230 and (HCAM 360 or MGMT 351) and MRKT 330
(HCAM majors are required to take HCAM 360)

Credits: 3

HCAM 425 - Long Term Care Management

This course will examine long-term care organizations and care in the United States. External and internal long-term environments, the organization and delivery of services, and the administration, management and leadership of long-term care organizations.

Prerequisites & Notes

HCAM 230 and (HCAM 360 or MGMT 351) and HCAM 365
(HCAM majors are required to take HCAM 360)

Credits: 3

HCAM 430 - Financial Management of Healthcare Organizations

This course is designed to build upon accounting and financial management strategies used in profit and not-for-profit healthcare organizations. It will expose students to the practical application and theoretical constructs necessary to manage finances in a variety of healthcare organizations.

Prerequisites & Notes

HCAM 230 and ACCT 209

Credits: 3

HCAM 450 - Internship - Health Care Administration & Management

Provides the student with an opportunity to apply theory to practice and develop competencies through a work-related experience in a profit, or not-for-profit healthcare related organization.

Prerequisites & Notes

HCAM 230, 360, 365, 400, 403, 405 (MAY BE TAKEN CONCURRENTLY WITH HCAM 400 AND/OR CPSC 403 AND/OR HCAM 405). APPLICATION AND PERMISSION OF INSTRUCTOR REQUIRED.

Credits: 3 to 12

HCAM 490 - Independent Study

In-depth reading and/or research with the guidance of a faculty member in an area selected by the student. Independent Study courses give students the opportunity to pursue research and/or studies that are not part of the university's traditional course offerings. Students work one on one or in small groups with faculty guidance and are typically required to submit a final paper or project as determined by the supervising professor.

Prerequisites & Notes

12 credits in major courses, application and permission of the instructor, departmental chairperson and dean of the college where the study will be conducted.

Credits: 1 to 3

HCAM 495 - Workshop

A workshop is a program which is usually of short duration, narrow in scope, often non-traditional in content and format, and on a timely topic.

Credits: 3

HCAM 498 - Selected Topics

A **Selected Topics** course is a normal, departmental offering which is directly related to the discipline, but because of its specialized nature, may not be able to be offered on a yearly basis by the department.

Credits: 3

HCAM 499 - Health Care Theory and Research Capstone Seminar

This course examines health care theories that focus on the key concepts of individual and population health, access to health care, cost of health care, quality of health care, and health care organization structures and processes. Students will research areas of interest based on these theoretical concepts.

Prerequisites & Notes

HCAM 230, and HCAM 360, and HCAM 400, and HCAM 405, and CPSC 403 (may be taken concurrently with HCAM 400 and/or CPSC 403 and/or HCAM 405).

Credits: 3

HEMT 112 - Introduction to Hospitality, Event Management and Tourism

The purpose of this course is to assist individuals with matching their aspirations with the opportunities within the hospitality and tourism profession. Primary areas related to tourism, recreation and event and hospitality management will be discussed providing a roadmap for students to chart their careers in the profession.

Credits: 3

HEMT 114 - Sustainability in the Hospitality Industry

Students in this course will discuss the economic, environmental and social sustainability challenges facing the hospitality industry. Ideas, solutions and strategies of sustainability will be explored as they apply to the management of sustainable operations.

Credits: 3

HEMT 139 - University Seminar

University Seminar serves as the entry point to the Slippery Rock University general education program. With its small seminar setting and strong faculty-student interaction, the course promotes intellectual inquiry, critical and creative thinking, and academic excellence. Through varied content, the course introduces students to academic discourse and information literacy while exploring topics such as diversity and inclusion and global awareness. This course will set students along the path to becoming engaged with issues and scholarship important to a 21st century education while they learn about themselves and their place in the world.

Credits: 3

HEMT 190 - Experimental

A unique and specifically focused course within the general purview of a department which intends to offer it on a "one time only" basis and not as a permanent part of the department's curriculum.

Prerequisites & Notes

Begins Spring 2015

Credits: 3

HEMT 195 - Workshop

A workshop is a program which is usually of short duration, narrow in scope, often non-traditional in content and format, and on a timely topic.

Prerequisites & Notes

Begins Spring 2015

Credits: 3

HEMT 198 - Selected Topics

A Selected Topics course is a normal, departmental offering which is directly related to the discipline, but because of its specialized nature, may not be able to be offered on a yearly basis by the department.

Prerequisites & Notes

Begins Spring 2015

Credits: 3

HEMT 210 - Ecotourism

This course provides a comprehensive introduction to the field of ecotourism. Class sessions will focus on a variety of topics including sustainability and its application to the tourism industry. Students will gain familiarity with environmental policies and ecotourism certifications, as well as management challenges and impacts from tourism. Students will apply this information to case study research focused on a variety of tourism destinations, ranging from coastal and mountain resorts to historical and cultural sites.

Credits: 3

HEMT 215 - Public Relations for Hospitality, Event Management and Tourism

The theory, principles and practices of public relations of value to hospitality and tourism personnel including oral, written and graphic presentations useful in public relations and interpretive efforts.

Prerequisites & Notes

HEMT 112

Credits: 3

HEMT 222 - Programming and Leadership for HEMT

This course is designed to provide a sound basis of learning and practical methods in the realm of recreation programming and leadership. It includes practical approaches to program design, sequencing program experiences, processing experiences, assessment and evaluation and examines the needs of leaders as well as participants in terms of communication skills and preferred learning styles. Participant behaviors and the important traits of a positive leader will also be examined.

Prerequisites & Notes

HEMT 112

Credits: 3

HEMT 290 - Experimental

A unique and specifically focused course within the general purview of a department which intends to offer it on a "one time only" basis and not as a permanent part of the department's curriculum.

Prerequisites & Notes

Begins Spring 2015

Credits: 3

HEMT 295 - Workshop

A workshop is a program which is usually of short duration, narrow in scope, often non-traditional in content and format, and on a timely topic.

Prerequisites & Notes

Begins Spring 2015

Credits: 3

HEMT 298 - Selected Topics

A Selected Topics course is a normal, departmental offering which is directly related to the discipline, but because of its specialized nature, may not be able to be offered on a yearly basis by the department.

Prerequisites & Notes

Begins Spring 2015

Credits: 3

HEMT 311 - Principles of Commercial Recreation/Tourism

A study of the various forms of commercial recreation, business and facilities providing recreational opportunities.

Credits: 3

HEMT 312 - Commercial Recreational Feasibility Studies

This course is a study of financial, marketing, and operations management concepts that go into a feasibility study of a commercial recreation business.

Credits: 3

HEMT 314 - Sustainable Planning for Tourism

This course is designed to develop an understanding of how sustainable planning can reduce the negative impacts and maximize the benefits of the tourism industry. Students will research and evaluate the social, environmental and economic impacts of a variety of tourist destinations. Analyses of the sites will be followed by formulating proposals to address key issues.

Prerequisites & Notes

HEMT 210

Credits: 3

HEMT 316 - Management of Hospitality and Tourism Facilities

A study of the design, operation and maintenance of selected hospitality, event management and tourism facilities.

Credits: 3

HEMT 318 - Administration for Hospitality, Event Management and Tourism

The organization and administration of hospitality, event management and tourism services, including organizational management, personnel practices and labor relations, financial and business procedures and legal aspects.

Credits: 3

HEMT 320 - Hospitality and Tourism Marketing

Course will examine service marketing concepts and practices as they relate to all areas of hospitality, tourism, and event management, and apply those principles to formulating marketing strategy.

Prerequisites & Notes

None.

Credits: 3

HEMT 322 - Food and Beverage Operations

Food and Beverage Operations is a survey of the food service industry to include: History and global economic impact, Menu engineering, Food sourcing with sustainable emphasis, Food Safety, Food Handling, Beverage Management, and exploration of commercial applications.

Prerequisites & Notes

Prerequisites: HEMT 112, C or higher or permission of the instructor.

Credits: 3

HEMT 351 - Practicum in HEMT

Observation and participation in hospitality, event management and tourism activities. Cross listed as HEMT352.

Prerequisites & Notes

Permission of instructor

Cross listed as HEMT352.

Credits: 3

HEMT 352 - Practicum in HEMT

Observation and participation in hospitality, event management and tourism activities. Cross listed as HEMT351.

Prerequisites & Notes

Permission of instructor

Cross listed as HEMT 351

Credits: 3

HEMT 390 - Experimental

A unique and specifically focused course within the general purview of a department which intends to offer it on a "one time only" basis and not as a permanent part of the department's curriculum.

Prerequisites & Notes

Begins Spring 2015

Credits: 3

HEMT 395 - Workshop

A workshop is a program which is usually of short duration, narrow in scope, often non-traditional in content and format, and on a timely topic.

Prerequisites & Notes

Begins Spring 2015

Credits: 3

HEMT 398 - Selected Topics

A Selected Topics course is a normal, departmental offering which is directly related to the discipline, but because of its specialized nature, may not be able to be offered on a yearly basis by the department.

Prerequisites & Notes

Begins Spring 2015

Credits: 3

HEMT 415 - Challenges and Trends in Hospitality, Event Management and Tourism

An integrative course for detailed study of current issues in hospitality, event management and tourism with emphasis on unique and imaginative solutions to the challenges facing the hospitality and tourism profession. Must be a senior to enroll.

Credits: 3

HEMT 416 - Resort Recreation Programming

This course examines the planning, organization, pricing, and evaluation of recreation programs, activities, and special events at various four season resorts, municipal recreation departments and residential camps and camping facilities. This course will also analyze the planning, developing, marketing, administration, and implementation of group recreation and special events.

Credits: 3

HEMT 417 - Hotel/Lodging & Hospitality Management

This course is a study of the management and operation of a variety of departments/divisions of a hotel/resort.

Credits: 3

HEMT 436 - Meeting Planning & Tournament Structure

A study of the organization, administration and supervision of special events, business/organization meetings, conferences, and tournaments held in hotels, resorts, athletic clubs, and communities.

Credits: 3

HEMT 450 - Internship in HEMT

A supervised off-campus work experience in an appropriate aspect of hospitality, event management, resort or municipal recreation or tourism work. Open only to HEMT majors with advanced standing.

Credits: 12

HEMT 490 - Independent Study

A special study opportunity for students to investigate in-depth, approved topics in hospitality, event management and tourism. Topic and credit established by student and supervising instructor. Independent Study courses give students the opportunity to pursue research and/or studies that are not part of the university's traditional course offerings. Students work one on one or in small groups with faculty guidance and are typically required to submit a final paper or project as determined by the supervising professor.

Prerequisites & Notes

Permission of the instructor, departmental chairperson and dean of the college where the study will be conducted

Credits: 3

HEMT 498 - Selected Topics

A Selected Topics course is a normal, departmental offering which is directly related to the discipline, but because of its specialized nature, may not be able to be offered on a yearly basis by the department.

Prerequisites & Notes

Begins Spring 2015

Credits: 3

HIST 139 - University Seminar

University Seminar serves as the entry point to the Slippery Rock University general education program. With its small seminar setting and strong faculty-student interaction, the course promotes intellectual inquiry, critical and creative thinking, and academic excellence. Through varied content, the course introduces students to academic discourse and information literacy while exploring topics such as diversity and inclusion and global awareness. This course will set students along the path to becoming engaged with issues and scholarship important to a 21st century education while they learn about themselves and their place in the world.

Credits: 3

HIST 140 - Spotlight on the Past

Students take a 360-degree view of a historical moment to consider how people asked questions and sought answers to the challenges of the human condition then and now.

Credits: 3

HIST 151 - Ancient and Medieval World

Major civilizations of the Western world as they meet and interact with the East. Emphasis is upon cultural achievements and institutional development to 1650.

Credits: 3

HIST 152 - Rise of the Modern World

This course surveys major events in world history from the Renaissance to the end of the 19th Century.

Credits: 3

HIST 153 - Contemporary World History

This course is a survey of major events, themes, and individuals in world history from 1900 to the present day. Topics could include the World Wars, the Cold War, and the emergence of new powers.

Credits: 3

HIST 190 - Experimental

A unique and specifically focused course within the general purview of a department which intends to offer it on a "one time only" basis and not as a permanent part of the department's curriculum.

Credits: 1 to 3

HIST 195 - Workshop

A workshop is a program which is usually of short duration, narrow in scope, often non-traditional in content and format, and on a timely topic.

Credits: 1 to 3

HIST 198 - Selected Topics

A **Selected Topics** course is a normal, departmental offering which is directly related to the discipline, but because of its specialized nature, may not be able to be offered on a yearly basis by the department.

Credits: 1 to 3

HIST 201 - Colonial America to 1815

Survey of American history during the period; topics may include the indigenous cultures that formed America's first permanent societies, the arrival of European colonists, the origins of slavery, the American Revolution, and the founding and expansion of the United States.

Credits: 3

HIST 202 - United States, 1815-1920

Survey of American history during the period; topics may include westward expansion, sectional divisions over slavery, the Civil War, Reconstruction, industrialization, Progressivism and the increasing influence of the US in global affairs.

Credits: 3

HIST 203 - U.S. History Since 1920

Survey of American history during the period; topics may include the changing role of government in domestic life, the Great Depression, World War II, the Cold War, the struggle for equality and civil rights among minority groups, postwar political realignments, and the changing role of the United States in the age of globalization.

Credits: 3

HIST 205 - The Historian's Craft

The course introduces students to the essential skills associated with historical research and writing, as well as a survey of various historical philosophies, historiography, and careers for history majors.

Prerequisites & Notes

Credits: 3

HIST 290 - Experimental

A unique and specifically focused course within the general purview of a department which intends to offer it on a "one time only "basis and not as a permanent part of the department's curriculum.

Credits: 1 to 3

HIST 295 - Workshop

A workshop is a program which is usually of short duration, narrow in scope, often non-traditional in content and format, and on a timely topic.

Credits: 1 to 3

HIST 298 - Selected Topics

A **Selected Topics** course is a normal, departmental offering which is directly related to the discipline, but because of its specialized nature, may not be able to be offered on a yearly basis by the department.

Credits: 1 to 3

HIST 304 - American Military History

A survey of the development of all branches of the American military spanning the colonial period to present day. The course includes a brief introduction to the development of the western way of war from pre-Hellenistic conflict through the middle ages in Europe. Technological innovation, evolution of tactical through strategic levels of warfare, and the symbiotic relationship between military development, national policy, and societal expectations will be examined.

Prerequisites & Notes

None

Credits: 3

HIST 305 - Russia to 1855

A social, political and cultural history from ancient times to the death of Nicholas I.

Credits: 3

HIST 306 - Russia Since 1855

Continuity and change in Russia from the reign of Alexander II through the Soviet period.

Credits: 3

HIST 313 - U.S. Manhood and Masculinities

An examination of expressions of manhood in American History from the colonial era to the present. Through the use of gender as a category of historical analysis, students will study notions of manhood in social relations, sexuality, the economy and politics.

Credits: 3

HIST 318 - Gender and Sexuality in European Society

This course examines gender and sexuality in European society with emphasis on the relationship between ideas about gender and sexuality and their social and cultural manifestations.

Credits: 3

HIST 319 - History of Women to 1750

An analysis of women from the earliest civilizations to 1750 through the examination of the lives of ordinary and outstanding women from different levels of the social order.

Credits: 3

HIST 323 - African American History to 1876

To investigate, discuss, and debate the historical experience of African Americans from their origins in West Africa, through the Middle Passage and the Plantation, to the 15th Amendment and the Sell-Out of 1876.

Credits: 3

HIST 324 - African American History Since 1876

The historical experiences of African Americans from the collapse of the Reconstruction and the emergence of Booker T. Washington, through the NAACP, UNIA, and the Harlem Renaissance, to the rise of the Nation of Islam, CORE, SCLC, and the election of 1976.

Credits: 3

HIST 326 - The Long Civil Rights Movement

Examines Black social movements, organizations, and civil rights court decisions in the United States from 1900 to the present.

Prerequisites & Notes

None.

Credits: 3

HIST 331 - England to 1689

Celts, Anglo-Saxons, Danes, and Normans in the formation of a nation, the medieval period, and the Tudor and Stuart centuries.

Credits: 3

HIST 332 - Britain Since 1689

This course investigates key events and individuals in British history since the Glorious Revolution.

Credits: 3

HIST 333 - Medieval Church

This course examines the medieval church and society with particular emphasis on the ways in which medieval men, women and institutions defined and applied the concepts of sanctity and heresy.

Credits: 3

HIST 335 - Outstanding Americans

A biographical approach to the study of American history. A study is made of the lives of those Americans who have made a contribution to society outside of politics.

Credits: 3

HIST 336 - American Economic History

American economic development with an emphasis on commerce, industry, labor, finance and governmental participation.

Credits: 3

HIST 337 - Native American History

Histories and cultures of indigenous peoples of North America from the pre-contact period to the present.

Credits: 3

HIST 343 - Public History

This course is intended to introduce students to the practices and theory of public history. Students will gain an understanding of museums, historic preservation, archives, documentary film, and many other methods of preserving and presenting historical content outside the classroom.

Credits: 3

HIST 344 - The American City

This course explores the history of American cities from the colonial period through the present day, with particular emphasis on the late 19th and 20th centuries. Examines the formation and evolution of the physical urban environment; the city as a site of race, class, and ethnic interactions; urban political, economic, and cultural evolution; transportation and suburbanization; and the consequences of the "urban crisis" of post-World War II era.

Credits: 3

HIST 346 - Rise of Imperial Britain

This course is a study of key events, people, and trends that shaped British history from the Act of Union that brought England, Scotland, Wales and Ireland together into a single nation, until the eve of WWI. This course will use literature, film, art, and primary source documents, as well as textbooks to examine Britain's rise to be the largest and most powerful empire in the world.

Credits: 3

HIST 347 - Twentieth Century British Culture

This course is a study of key events, people, and trends that shaped British culture throughout the twentieth century. The course will focus on such moments as the two world wars, decolonization, and the rise of a multi-cultural populace. It will provide the historical narrative and then analyze the cultural impact through the use of film, television, art, theater, photography and music.

Credits: 3

HIST 350 - The American Civil War

An examination of the causes, conduct, and consequences of the American Civil War with emphasis given to its political, constitutional, economic, military, and social ramifications.

Credits: 3

HIST 351 - Latin America to 1830

Political, economic, and social development of the Spanish and Portuguese colonies in America, culminating in the winning of national independence.

Credits: 3

HIST 352 - Latin America Since 1830

Developing countries of Latin America, their internal problems, international relations and historic evolution to the present.

Credits: 3

HIST 353 - History of the Americas

A study of the American republics and their interactions from the colonial era to the present. Students will begin their study by examining the rise and decline of the Spanish, Portuguese, Dutch, French and British empires in the New World. Having considered many of the legacies bequeathed to the new American republics by their colonial heritage, students can then examine how those legacies have affected inter-American relations for the last two centuries.

Prerequisites & Notes

None

Credits: 3

HIST 358 - American Popular Culture, 1865 to the Present

An interdisciplinary course, involving American literature, philosophy, the fine and performing arts, sports and politics, which examines characteristics and patterns in American popular culture and institutions. Studies will focus on how the creative life of selected Americans and their institutions inform the nature of the evolving cultures in different eras in American history and how they continue to shape the nation and its diverse peoples, values and mores.

Credits: 3

HIST 362 - Africa North of the Zambezi

Language groups, migrations of peoples, external influences, colonialism, and the emergence of independent states.

Credits: 3

HIST 363 - Southern Africa

The Republic of South Africa and the High Commission Territories of Bechuanaland, Swaziland, and Basutoland, including colonialism, imperialism, war, and reconstruction in the 19th and 20th centuries.

Credits: 3

HIST 364 - History of Medicine

This course will trace the history of medical philosophy and practices. It will examine the vast variety of efforts to amend human suffering and extend life through human intervention. The course is concerned with medicinal approaches throughout the span of human development and across the globe.

Credits: 3

HIST 370 - History and the Bible

The history of the eastern Mediterranean area from 1800 B.C.-100 A.D. with a study of the Old and New Testaments in order to evaluate their historical validity.

Credits: 3

HIST 371 - History of Jews

A course surveying Jewish life and thought from early Roman times to the present. Four thousand years of Jewish participation in most world civilizations are examined, and religious, philosophical, and literary contributions are analyzed.

Credits: 3

HIST 376 - Modern Japan

This course investigates the history of the Japanese people from the beginning of the nineteenth century to the present.

Credits: 3

HIST 380 - Egyptology

A study of the history and culture of ancient Egypt from the old kingdom through the new kingdom. The methods and disciplines utilized in the study of an ancient culture will be analyzed and evaluated.

Credits: 3

HIST 381 - East Asian Military Traditions

This course examines the factors that have distinguished East Asian military practices from the fifth century BCE to modern times.

Credits: 3

HIST 382 - Modern Asian Pacific Rim

This course examines the political, social, economic, technological, and cultural factors that have affected the Asian Pacific Rim's evolution into the most economically dynamic region of the world today.

Credits: 3

HIST 386 - Modern China

In this course we investigate the history of modern China, the major factors which influenced its course and the values that operate in Chinese society today as well as its fast ascent to major international importance.

Credits: 3

HIST 390 - Experimental

A unique and specifically focused course within the general purview of a department which intends to offer it on a "one time only "basis and not as a permanent part of the department's curriculum.

Credits: 1 to 3

HIST 395 - Workshop

A workshop is a program which is usually of short duration, narrow in scope, often non-traditional in content and format, and on a timely topic.

Credits: 1 to 3

HIST 398 - Selected Topics

A **Selected Topics** course is a normal, departmental offering which is directly related to the discipline, but because of its specialized nature, may not be able to be offered on a yearly basis by the department.

Credits: 1 to 3

HIST 404 - Violence in Post-45 Europe

This course focuses on three case studies of violence in Europe in the post-WWII era:

1. Displaced Persons and the refugee crisis as a result of the collapse of governments at the end of the war
2. The sectarian violence in Northern Ireland between 1968 and 2000
3. The wars in the Balkans in the 1990's

Credits: 3

HIST 406 - Mass Killing and Genocide in the Modern World

In this course, we will explore through readings, films, discussion and Internet the troubling and complex topics of mass killing (massacre) and genocide in the modern world, both vexing issues that continue to plague us into the twenty-first century and that no doubt we will face into the foreseeable future. We will examine definitions of terms and the long-term historical context(s) for mass killing/genocide, then we will consider specific cases of mass killing and genocide worldwide.

Credits: 3

HIST 411 - Digital History

This course will explore the ways in which digital technologies are changing how historians think about, research and present the past; topics may include digital publishing, visualizations, geospatial mapping, text mining and digitization of historical documents and artifacts.

Credits: 3

HIST 422 - Ancient Greece

This course examines the history of ancient Greece, from the rise of its city-states to the Hellenistic world created by Alexander the Great's conquests. In addition to surveying major events, significant persons, and intellectual achievements, additional emphasis will be given to examining contributions to modern concepts of participatory government and intellectual constructs.

Credits: 3

HIST 423 - Ancient Rome

This course examines the history of ancient Rome, from its origins ca. 800 BCE to its "fall" traditionally dated ca.476 CE. In addition to surveying major events and significant persons during its Regnal, Republican and Imperial Periods, emphasis will be given to examining Roman culture and political development as antecedents to modern institutions.

Credits: 3

HIST 424 - The Middle Ages

This course investigates the major political, social, and intellectual developments of Western Europe during the Middle Ages, 500 to 1500.

Credits: 3

HIST 426 - French Revolution and Napoleon

French political, social, and economic affairs in the 18th century, the French Enlightenment, the Revolution, and the Napoleonic period.

Credits: 3

HIST 427 - Nineteenth Century Europe

From the Congress of Vienna to the outbreak of World War I, examining nationalism, liberalism, the response to industrialism, imperialism, the rise of the alliance system, and the breakdown of nineteenth century order.

Credits: 3

HIST 435 - Pennsylvania

The founding and growth of Pennsylvania to the present.

Credits: 3

HIST 437 - The American West

This course examines the history of diverse groups that have resided in the American West since the sixteenth century - Native Americans, Spanish, Mexicans, and citizens of the United States. Topics include the role of the United States government in the conquest, economic development, and administration of the West; the legacy of that conquest for native and immigrant peoples; the formation of distinctive Western communities; contest for access to natural resources and wealth; and the idea of the mythic frontier in American Culture.

Credits: 3

HIST 445 - Americans and the Environment

This course surveys the environmental history of North American from pre-Columbian societies until the present, exploring how the environment has influenced America's social, political, economic and cultural development, as well as how human activity and ideas have shaped nature.

Credits: 3

HIST 450 - History Internship

Supervised placement and research in selected public and private agencies at appropriate institutions.

Credits: 1 to 12

HIST 453 - American Constitutional History and Law

Federal constitution by the Supreme Court, including the growth of constitutional law and political, social, economic, and technological changes. May be used as a political science elective.

Credits: 3

HIST 454 - Research and Writing Seminar

This class is designed to provide advanced history students with the opportunity to develop the research and writing skills of the historian. Student will produce a major paper based on research in primary sources.

Prerequisites & Notes

HIST205 and Upper Division Standing

Credits: 3

HIST 462 - The Contemporary Middle East

The economic, social, cultural, and political aspects of the Middle East in the perspective of the past.

Credits: 3

HIST 463 - Israel - History, State, and Society

In this course, we will examine the following topics: the development of Zionism and the circumstances in the Jewish Diaspora that led to the call for a "Jewish" state; the British Mandate for Palestine, 1920-1948; the establishment of Israel; Israeli state and society, 1948 to present; and Israel within the broader context of the modern Middle East.

Credits: 3

HIST 464 - The Scientific Revolution of the 17th and 18th Centuries

The Scientific Revolutions of the 17th and 18th Centuries is a survey of the changes and developments in Western science from antiquity to the brink of the Industrial Revolution. The course investigates the origins, transmission and development of scientific ideas and the appearance and impact of new intellectual communities in Western Europe.

Credits: 3

HIST 490 - Independent Study

For history majors or advanced students with a background in history. Prerequisites: GPA of 2.750 in history and permission of the instructor, departmental chairperson, and dean of the college where the study will be conducted. Independent Study courses give students the opportunity to pursue research and/or studies that are not part of the university's traditional course offerings. Students work one on one or in small groups with faculty guidance and are typically required to submit a final paper or project as determined by the supervising professor.

Credits: 1 to 3

HIST 495 - Workshop

A workshop is a program which is usually of short duration, narrow in scope, often non-traditional in content and format, and on a timely topic.

Credits: 1 to 3

HIST 498 - Selected Topics

Selected topics such as JFK assassination and history and film are offered on a rotational basis as staffing allows.

A **Selected Topics** course is a normal, departmental offering which is directly related to the discipline, but because of its specialized nature, may not be able to be offered on a yearly basis by the department.

Credits: 1 to 3

HLTH 100 - Introduction to Health Careers

Provides students with an understanding of various career opportunities in health and safety occupations and the opportunity to determine whether their needs, interests, abilities, and values are suited to careers in this area.

Credits: 3

HLTH 101 - Personal Health

Addresses concerns pertaining to college living and life-long health. Emphasizes wellness with its emotional, physical, and social components.

Credits: 3

HLTH 102 - Health Appraisal and Promotion

Discusses the role of wellness in health promotion. Identifies major health risks and examines primary prevention strategies utilizing select health appraisal instruments for the promotion of optimal individual and community health. Exposes students to agencies, which serve as resources for health information.

Prerequisites & Notes

For community health, exercise science, physical education and school health majors only or by permission of the instructor. Freshman or sophomore standing only

Credits: 3

HLTH 103 - Health and Behavior Change

Examines the major health problems and health risks to determine feasible secondary and tertiary intervention strategies to maintain, promote and manage the highest possible level of individual and community health. Explores behaviors and circumstances that are barriers to seeking and/or adhering to medical advice.

Prerequisites & Notes

For community health, exercise science, physical education and school health majors only or by permission of the instructor. Freshman or sophomore standing only

Credits: 3

HLTH 139 - University Seminar

University Seminar serves as the entry point to the Slippery Rock University general education program. With its small seminar setting and strong faculty-student interaction, the course promotes intellectual inquiry, critical and creative thinking, and academic excellence. Through varied content, the course introduces students to academic discourse and information literacy while exploring topics such as diversity and inclusion and global awareness. This course will set students along the path to becoming engaged with issues and scholarship important to a 21st century education while they learn about themselves and their place in the world.

Credits: 3

HLTH 190 - Experimental

A unique and specifically focused course within the general purview of a department which intends to offer it on a “one time only” basis and not as a permanent part of the department’s curriculum.

HLTH 195 - Workshop

A workshop is a program which is usually of short duration, narrow in scope, often non-traditional in content and format, and on a timely topic.

HLTH 198 - Selected Topic

A **Selected Topics** course is a normal, departmental offering which is directly related to the discipline, but because of its specialized nature, may not be able to be offered on a yearly basis by the department.

HLTH 203 - Public Health and Physical Activity

This course will focus on introducing public health students to the benefits of physical activity (PA), how to safely engage in PA and how to apply PA to the public health model.

Prerequisites & Notes

For Public Health majors and minors only

Credits: 3

HLTH 210 - Introduction to Public Health

Provides a broad foundation of information related to the structure and functioning of the community health system including the identification and examination of programs, providers, and current problems associated with the delivery of health services.

Credits: 3

HLTH 211 - Women's Health Issues

Examines the role of women as consumers and as both formal and informal providers of health services.

Credits: 3

HLTH 262 - Health Foundations

Identifies and examines the major health problems at the individual and community level. Emphasizes health information and resources that can be used to deliver developmentally appropriate primary, secondary and tertiary education and/or interventions among diverse populations.

Credits: 3

HLTH 290 - Experimental

A unique and specifically focused course within the general purview of a department which intends to offer it on a "one time only" basis and not as a permanent part of the department's curriculum.

HLTH 295 - Workshop

A workshop is a program which is usually of short duration, narrow in scope, often non-traditional in content and format, and on a timely topic.

HLTH 298 - Selected Topic

A **Selected Topics** course is a normal, departmental offering which is directly related to the discipline, but because of its specialized nature, may not be able to be offered on a yearly basis by the department.

HLTH 301 - Introduction to Health Education

Examines the knowledge and skills necessary to function effectively as a community, school, or worksite health educator. Emphasizes the responsibilities and competencies of the Certified Health Education Specialist.

Prerequisites & Notes

HLTH 103 and HLTH 210

Credits: 3

HLTH 309 - Introduction to the Study of Disease

Provides a broad foundation of information related to the etiology, pathophysiological mechanisms, signs and symptoms, outcomes and current therapies for selected communicable, genetic, and chronic diseases.

Prerequisites & Notes

Prerequisites: BIOL 216

Credits: 3

HLTH 310 - Environmental Health

Explores the ecologic, economic, ethical, toxicologic and epidemiologic bases for environmental health both globally and within the community setting. Emphasizes the relationship between biological, physical and chemical agents and disease/injury causation and the role of government.

Prerequisites & Notes

CHEM 104 (or CHEM 107 Gen Chem 1 & lab) or BIOL 210

Credits: 3

HLTH 311 - International Health

Examines significant health problems affecting populations in various areas of the world. Provides opportunities to understand approaches to health from different cultural perspectives and focuses on the integration of disease patterns in peoples within specific geographic areas. Emphasizes interdisciplinary perspectives on how cultural diversity relates to us and the world community.

Prerequisites & Notes

Junior standing

Credits: 3

HLTH 312 - Data Management for Health Science

Explores methods of data collection, manipulation and reporting for health science. Includes computer applications.

Prerequisites & Notes

MATH 152 or STAT 152 or permission of the instructor. Basic computer literacy is recommended

Credits: 3

HLTH 313 - Biostatistics

Provides a broad foundation of knowledge related to data analysis in health science. Emphasizes the interpretation of health data and the computer skills for common statistical methods.

Prerequisites & Notes

HLTH 312

Credits: 3

HLTH 314 - Nutrition and Health

Examines basic scientific principles of nutrition, specifically all major nutrient classes in terms of functions, food sources, and adequate intakes along with sensitivity to diverse needs throughout the life cycle. Emphasizes interdisciplinary perspectives on how cultural diversity relates to food choices and how unique ethnic health challenges influence dietary needs.

Credits: 3

HLTH 316 - Human Sexuality

Surveys a broad range of information about human sexuality from biological, psychological, sociological, religious, and medical perspectives.

Credits: 3

HLTH 390 - Experimental

A unique and specifically focused course within the general purview of a department which intends to offer it on a "one time only" basis and not as a permanent part of the department's curriculum.

HLTH 395 - Workshop

A workshop is a program which is usually of short duration, narrow in scope, often non-traditional in content and format, and on a timely topic.

HLTH 398 - Selected Topic

A **Selected Topics** course is a normal, departmental offering which is directly related to the discipline, but because of its specialized nature, may not be able to be offered on a yearly basis by the department.

HLTH 406 - Program Planning and Evaluation

Provides basic proficiency in quantitative and qualitative approaches to health education and health promotion program measurement and evaluation. Current trends and issues in community, school and worksite health promotion are brought to bear on the problems of implementing and interpreting the results of formative and summative evaluation.

Prerequisites & Notes

HLTH 301 and senior standing or permission of the instructor

Credits: 3

HLTH 410 - Epidemiology

Introduces the study of population-based research and statistical methods of inquiry regarding distribution and determination of disease in human populations. Emphasizes appropriate study design and investigative techniques and interpretation of findings related to community health.

Prerequisites & Notes

HLTH 313 Biostatistics or a statistics course approved by the instructor with permission of the instructor and senior standing

Credits: 3

HLTH 424 - Nutrition and Exercise

This course provides an understanding of the dietary standards that dictate nutritional requirements for apparently healthy adults. Emphasis is placed on the evaluation of an recommendations for macronutrients, micronutrients, and hydration status for health, physical activity, and human performance.

Prerequisites & Notes

Prerequisites: (HLTH 314 or ERS 300), ERS 301, and ERS 302

Credits: 3

HLTH 440 - Public Health Seminar

This course is designed to provide a critical analysis of the major contemporary public health problems facing persons and communities. Content will also address professionalism and career advancement in the public health professions.

Prerequisites & Notes

Senior Standing

Credits: 3

HLTH 450 - Internship

Provides opportunity to apply theory and develop competencies through a work-related experience in an appropriate cooperating enterprise. Summers only.

Prerequisites & Notes

Program/major specified requirements and/or approval of instructor

Credits: 1 to 12

HLTH 455 - Student Teaching - Health Science

Under the guidance of a cooperating teacher and university supervisor, students engage in two, eight week assignments on a full-time basis in specified school districts and attend scheduled seminars. Supervisors assign additional requirements.

Credits: 3 to 12

HLTH 490 - Independent Study

Students study under the supervision of a professor on a specific and significant topic.

Independent Study courses give students the opportunity to pursue research and/or studies that are not part of the university's traditional course offerings. Students work one on one or in small groups with faculty guidance and are typically required to submit a final paper or project as determined by the supervising professor.

Prerequisites & Notes

Permission of the instructor, departmental chairperson, and dean of the college where the study will be conducted.

Credits: 1 to 6

HLTH 495 - Workshop

A workshop is a program which is usually of short duration, narrow in scope, often non-traditional in content and format, and on a timely topic.

HLTH 498 - Selected Topic

A **Selected Topics** course is a normal, departmental offering which is directly related to the discipline, but because of its specialized nature, may not be able to be offered on a yearly basis by the department.

HONR 190 - Experimental

A unique and specifically focused course within the general purview of a department which intends to offer it on a "one time only" basis and not as a permanent part of the department's curriculum.

Credits: 1-3

HONR 195 - Workbook

A workshop is a program which is usually of short duration, narrow in scope, often non-traditional in content and format, and on a timely topic.

Credits: 1-3

HONR 198 - Selected Topic

A **Selected Topics** course is a normal, departmental offering which is directly related to the discipline, but because of its specialized nature, may not be able to be offered on a yearly basis by the department.

Credits: 1-3

HONR 290 - Experimental

A unique and specifically focused course within the general purview of a department which intends to offer it on a "one time only" basis and not as a permanent part of the department's curriculum.

Credits: 1-3

HONR 295 - Workshop

A workshop is a program which is usually of short duration, narrow in scope, often non-traditional in content and format, and on a timely topic.

Credits: 1-3

HONR 298 - Selected Topic

A **Selected Topics** course is a normal, departmental offering which is directly related to the discipline, but because of its specialized nature, may not be able to be offered on a yearly basis by the department.

Credits: 1-3

HONR 385 - The Great Books

Seminars on selected topics from the classic works of human thought.

Credits: 3

HONR 386 - The Great Books

Seminars on selected topics from the classic works of human thought.

Credits: 3

HONR 387 - The Great Books

Seminars on selected topics from the classic works of human thought.

Credits: 3

HONR 388 - The Great Books

Seminars on selected topics from the classic works of human thought.

Credits: 3

HONR 390 - Experimental

A unique and specifically focused course within the general purview of a department which intends to offer it on a "one time only" basis and not as a permanent part of the department's curriculum.

HONR 395 - Workshop

A workshop is a program which is usually of short duration, narrow in scope, often non-traditional in content and format, and on a timely topic.

Credits: 1-3

HONR 398 - Selected Topic

A **Selected Topics** course is a normal, departmental offering which is directly related to the discipline, but because of its specialized nature, may not be able to be offered on a yearly basis by the department.

Credits: 1-3

HONR 492 - Innovation for Positive Change

This course deals with the background knowledge, skills, and dispositions needed to innovate. This includes the ability to develop new ideas, recognize opportunities, analyze risks, create teams of motivated helpers, foster positive communication within the team, lead the team effectively to bring about change, assess progress from an idea to a change, and to pivot along the way. This course serves as the capstone course for the Innovation and Entrepreneurship Rock Studies Thread.

Prerequisites & Notes

Prerequisites: 3 or 4 courses passed in the Innovatin & Entrepreneurship Thread

Credits: 3

HONR 495 - Workshop

A workshop is a program which is usually of short duration, narrow in scope, often non-traditional in content and format, and on a timely topic.

Credits: 1-3

HONR 498 - Selected Topic

A **Selected Topics** course is a normal, departmental offering which is directly related to the discipline, but because of its specialized nature, may not be able to be offered on a yearly basis by the department.

Credits: 1-3

HSS 120 - Introduction to Homeland Security

This course is a general introduction to the foundations of homeland security, counter-terrorism, infrastructure protection, intelligence operations and other mechanics of the homeland defense field. This course also includes an overview of the legal, sociopolitical and criminal justice aspects of homeland security.

Credits: 3

HSS 139 - University Seminar

University Seminar serves as the entry point to the Slippery Rock University general education program. With its small seminar setting and strong faculty-student interaction, the course promotes intellectual inquiry, critical and creative thinking, and academic excellence. Through varied content, the course introduces students to academic discourse and information literacy while exploring topics such as diversity and inclusion and global awareness. This course will set students along the path to becoming engaged with issues and scholarship important to a 21st century education while they learn about themselves and their place in the world.

Credits: 3

HSS 190 - Experimental

A unique and specifically focused course within the general purview of a department which intends to offer it on a "one time only" basis and not as a permanent part of the department's curriculum.

Credits: 1-3

HSS 195 - Workshop

A workshop is a program which is usually of short duration, narrow in scope, often non-traditional in content and format, and on a timely topic. The course outline will be determined by the instructor based on key developments, trends or specialized content within homeland security. Permission of instructor.

Credits: 3

HSS 198 - Selected Topic

The in-depth examination of a specific topic. The nature of the topic selected and its treatment will be determined in consultation with the instructor. Permission of instructor.

Credits: 3

HSS 210 - Fundamentals of Terrorism

This course will explore the complex issues surrounding terrorism. In terms of terrorism, the topics addressed may include: complexities of defining it, types of terrorists, causes of terrorism, methods used to achieve their goals, environments, funding and support, structure and counter-terrorist measures, and the issues the criminal justice system faces when trying to prevent, detect, and investigate it.

Prerequisites & Notes

Prerequisites: HSS 120 or CSS 120; C or better

Credits: 3

HSS 230 - Risk Analysis and Strategic Planning

This course provides an overview of principles of risk analysis and management, including vulnerability and threat identification, assessing risk threats, security survey methodology, emergency management and response strategies.

Prerequisites & Notes

HSS 120 with a grade of C or better

Credits: 3

HSS 240 - Emergency and Disaster Recovery

This course covers the management and response to emergencies, disasters and crises, including natural disasters, accidents and terror/civil strife. The class includes the formulation of disaster planning and response strategies from both governmental and private sector perspectives.

Prerequisites & Notes

HSS 120 with a grade of C or better

Credits: 3

HSS 290 - Experimental

A unique and specifically focused course within the general purview of a department which intends to offer it on a "one time only" basis and not as a permanent part of the department's curriculum.

Credits: 1-3

HSS 295 - Workshop

A workshop is a program which is usually of short duration, narrow in scope, often non-traditional in content and format, and on a timely topic. The course outline will be determined by the instructor based on key developments, trends or specialized content within homeland security. Permission of instructor.

Credits: 3

HSS 298 - Selected Topic

The in-depth examination of a specific topic. The nature of the topic selected and its treatment will be determined in consultation with the instructor. Permission of instructor.

Credits: 3

HSS 300 - Terrorist Organizations and Lone Wolves

This course will allow students to study the ideological evolution, the behavioral indicators, recruitment styles, organizational styles, financing methods, and tactics for specific domestic and international terrorist organizations. Issues such as the radicalization and behavioral indicators of both terrorist organization and lone wolves will be discussed as well.

Prerequisites & Notes

Prerequisite: HSS 210, grade of C or better.

Credits: 3

HSS 310 - Weapons of Mass Destruction

This course will examine the threat and use of nuclear, biological, chemical, and radiological weapons and their implications to the Homeland. The course will evaluate means of proliferation and countermeasures overseas and within the Homeland.

Prerequisites & Notes

Prerequisites: HSS 210 C or better

Credits: 3

HSS 320 - Protecting Infrastructure and Key Assets

This course focuses on the protection of critical infrastructure, including information and telecommunication systems, water supply, energy, first responders, transportation, health/medical and other key assets.

Prerequisites & Notes

Prerequisites: HSS 230 with a grade of C or better

Credits: 3

HSS 330 - Intelligence Operations

This course encompasses the development and use of national security and policing intelligence, and includes theoretical and practical models of intelligence in governmental and private security environments.

Prerequisites & Notes

Prerequisites: HSS 320 with a grade of C or better

Credits: 3

HSS 340 - Intelligence for Homeland Security

This course will examine intelligence operations for the Homeland Security Enterprise at the state and local level, within the Department of Homeland Security, and within the private sector. The course will utilize intelligence tradecraft to assess current threats, trends, hazards, and vulnerabilities in the Homeland. The course will also prepare students to write intelligence briefs.

Prerequisites & Notes

Prerequisites: HSS 340 C or better

Credits: 3

HSS 350 - Securing Virtual Infrastructure

This course will examine the implications of the growing cybersecurity environment. The course will discuss targeted systems, threat adversaries, attack methods, and recovery and mitigation processes.

Prerequisites & Notes

Prerequisites: HSS 230 C or better

Credits: 3

HSS 390 - Experimental

A unique and specifically focused course within the general purview of a department which intends to offer it on a "one time only" basis and not as a permanent part of the department's curriculum.

Credits: 1-3

HSS 395 - Workshop

A workshop is a program which is usually of short duration, narrow in scope, often non-traditional in content and format, and on a timely topic. The course outline will be determined by the instructor based on key developments, trends or specialized content within homeland security. Permission of instructor.

Credits: 3

HSS 398 - Selected Topic

The in-depth examination of a specific topic. The nature of the topic selected and its treatment will be determined in consultation with the instructor. Permission of instructor.

Credits: 3

HSS 441 - Terrorism Law & National Security

This course will discuss terrorism-its structure, causes, and illegal financing and the evolution of domestic and international laws evolving to deal with terrorism and national security.

Credits: 3

HSS 450 - Internship

Supervised placement and research in selected public and private agencies.

Prerequisites & Notes

Permission of instructor

Credits: 3 to 9

HSS 460 - Capstone in Homeland Security

The Capstone class applies student professional proficiency, communication skills, ethical understanding, cultural awareness and critical thinking towards the completion of a capstone project that demonstrates competency in multiple aspects of homeland security and defense.

Prerequisites & Notes

Prerequisites: HSS 340 with a grade of C or better

Credits: 3

HSS 490 - Independent Study

Independent Study courses give students the opportunity to pursue research and/or studies that are not part of the university's traditional course offerings. students work on one or in small groups with faculty guidance and are typically required to submit a final paper or project as determined by the supervising professor.

Credits: 1 to 3

HSS 495 - Workshop

A workshop is a program which is usually of short duration, narrow in scope, often non-traditional in content and format, and on a timely topic. The course outline will be determined by the instructor based on key developments, trends or specialized content within homeland security. Permission of instructor.

Credits: 3

HSS 498 - Selected Topic

The in-depth examination of a specific topic. The nature of the topic selected and its treatment will be determined in consultation with the instructor. Permission of instructor.

Credits: 3

INDP 103 - Contemporary Social Problems

An analysis of major social problems confronting modern society.

Credits: 3

INDP 106 - Race and Ethnic Diversity in the USA

An introduction to racial and ethnic diversity in the U.S.A., with focus on trends in immigration, demographics, socio-cultural dynamics and issues, past and present.

Credits: 3

INDP 120 - Civic Engagement and Community Decision-Making

An introduction to civic engagement in a democratic society with a focus on the complex nature of public policy making and the role each citizen plays in the formation and modification of socially just public policies. Students will gain introductory skills in civil voice, civil discourse, public policy analysis and community mobilizing for social good.

Credits: 3

INDP 139 - University Seminar

University Seminar serves as the entry point to the Slippery Rock University general education program. With its small seminar setting and strong faculty-student interaction, the course promotes intellectual inquiry, critical and creative thinking, and academic excellence. Through varied content, the course introduces students to academic discourse and information literacy while exploring topics such as diversity and inclusion and global awareness. This course will set students along the path to becoming engaged with issues and scholarship important to a 21st century education while they learn about themselves and their place in the world.

Credits: 3

INDP 144 - Introduction to Cognitive Studies

The goal of Cognitive Studies is to understand the mind using insights from a variety of fields including Psychology, Computer Science, Linguistics, Philosophy, Anthropology, Sociology, and Neuroscience. Cognitive Science is by definition an interdisciplinary field. The class will cover mental processes such as perception, reasoning, memory, attention, imagery, language, intelligence, thinking, decision-making, and consciousness using an interdisciplinary approach that fits within a liberal arts perspective.

Credits: 3

INDP 190 - Experimental

A unique and specifically focused course within the general purpose of a department which intends to offer it on a "one time only" basis and not as a permanent part of the department's curriculum.

Credits: 3

INDP 195 - Workshop

A workshop is a program which is usually of short duration, narrow in scope, often non-traditional in content and format, and on a timely topic.

Credits: 3

INDP 198 - Selected Topic

A **Selected Topics** course is a normal, departmental offering which is directly related to the discipline, but because of its specialized nature, may not be able to be offered on a yearly basis by the department.

Credits: 3

INDP 200 - Empowered to Serve

Planning a career where you will help others? The interdisciplinary approach of this course introduces students to the historical, cultural and ethical context of service; investigates the increase in the number of helping professionals; takes students on a journey of personal empowerment; and offers theories and best practices that prepare them to empower the persons they will serve in their professions. Assigned readings, case studies, service-learning experiences, structured reflection and discussions empower students to understand and develop individual purpose, become lifelong learners, and combine knowledge, skills, values and motivation to make a difference in the lives of those they serve. This course would be especially useful for students seeking careers in helping professions such as animal care and protection, community and public service, counseling, education, health and wellness, human rights, legal and protective services, the military or social services.

Credits: 3

INDP 201 - Principles of Sociology

Basic concepts of social behavior, group structure and group processes.

Credits: 3

INDP 202 - Introduction to Anthropology

Human beings as cultural and biological entities. Emphasis is on primitive and peasant societies.

Credits: 3

INDP 211 - Biological Anthropology

This course provides an understanding of the place of the human species within the biological system. It stresses the concepts and processes of evolution and emphasizes the study of human and non-human primates as seen in the fossil record as well as through study of genetics and behavior.

Credits: 3

INDP 212 - Archaeology/World Prehistory

A discussion of culture history around the world based on archaeological evidence. It begins with early signs of culture called the Paleolithic or Old Stone Age of Africa, Asia, Europe and America (where it is named Paleo Indian), and concludes with the rise of complex, stratified cultures based on agriculture in the Middle East, America, and East Asia.

Credits: 3

INDP 215 - Introduction to Consciousness

This class will survey theories of consciousness and self through the scope of a broad range of fields: Neurophysiology, Cognitive Psychology, Philosophy, Artificial Intelligence, Evolutionary Psychology and Physics. Consciousness and the sense of self will be explored and viewed from a number of different disciplines using an interdisciplinary approach.

Credits: 3

INDP 220 - Introduction to Nonprofit Management

An introduction to the nonprofit sector; emphasis on leadership and decision-making in rapidly growing areas of health and human service, cultural, environmental, educational, charitable, and religious organizations.

Credits: 3

INDP 226 - Population and Society

Sociological/anthropological analysis of selected population trends, problems and controversies in the contemporary world-both literate and non-literate.

Credits: 3

INDP 230 - Introduction to Public Administration

This interdisciplinary and global approach to public administration will explore the theories and best practices employed by public servants to promote the public good through ethical, culturally competent, and efficient and effective service provision. Through case studies and service-learning projects, students will be encouraged to consider a cross sector approach for implementing and evaluating policies and procedures that impact quality of life both domestically and globally. Students will develop a greater understanding of the role public servants have in their lives, develop skills employed by these professionals and explore public service career opportunities.

Credits: 3

INDP 244 - Artificial Intelligence in Cognitive Studies and Film

Artificial intelligence (AI) is the study of how to realize human intelligence on a computer. Philosophically, it is concerned with replicating consciousness and self-recognition in machines. The goal of AI is to make a computer that can learn, plan, and solve problems. This course will cover fundamental knowledge for understanding AI. We will introduce the history of AI in Cognitive Science and how it has been explored in various popular films.

Credits: 3

INDP 251 - Leadership Theory

A survey of the nature, purpose and leadership of human institutions: why and how people organize; organizational environments, forms, structures, processes, leadership, communication, ethical, and societal impacts.

Credits: 3

INDP 252 - Leadership Practicum

Students will participate in leadership and campus student organization and/or sanctioned activities and will keep a journal relating their activities to leadership and organizational development theory studied in the Introduction to Leadership course. The course instructor will supervise the students and certify that they met the requirements in the following areas: leadership development, group service and field-work experience.

Prerequisites & Notes

INDP 251 or PROF 250

Credits: 3

INDP 253 - Online Practical Research

Students will participate in a leadership workshop online where they will examine 10 leaders via case studies and keep a portfolio with a summation of their findings regarding the various leaders and their actions with respect to the organizational development theory studies in the Introduction to Leadership Course. The course instructor will supervise the students and certify that they met the requirements in the following areas: leadership development, group service, and field-work experience.

Prerequisites & Notes

Prerequisites: INDP 251 Grade of C

Credits: 3

INDP 290 - Experimental

A unique and specifically focused course within the general purpose of a department which intends to offer it on a "one time only "basis and not as a permanent part of the department's curriculum.

Credits: 3

INDP 295 - Workshop

A workshop is a program which is usually of short duration, narrow in scope, often non-traditional in content and format, and on a timely topic.

Credits: 3

INDP 298 - Selected Topic

A **Selected Topics** course is a normal, departmental offering which is directly related to the discipline, but because of its specialized nature, may not be able to be offered on a yearly basis by the department.

Credits: 3

INDP 304 - Urban Sociology

Sociological aspects of urban life. Includes metropolitan areas and small cities.

Credits: 3

INDP 305 - Financial Best Practice for Decision Makers

Emphasizes practical use of accounting information to support decision making by those in fields such as business, sports, resort management, government, education, and not-for-profit. Overview of financial and managerial accounting from a user's perspective, including use and analysis of financial statements, internal control, budget preparation, and cost and revenues behavior patterns. (For non-business majors)

Credits: 3

INDP 309 - Health and Society

An analysis of health services, public policy and institutional relations. Note: This course is taught from either a sociological or anthropological viewpoint. The student should check with the instructor to determine the approach being taken in the current offering.

Credits: 3

INDP 310 - Cultural Area Studies

Anthropology course dealing with sociocultural phenomena of specific cultural areas. Topics to be announced. Course may be repeated one time in a different area.

Credits: 3

INDP 312 - Archaeology Techniques and Laboratory

A course designed to introduce students to basic techniques in the field and to provide laboratory experience in working with field materials.

Prerequisites & Notes

INDP 202 or permission of the instructor

Credits: 3

INDP 315 - Mindfulness and the Brain

Cognitive Science is the interdisciplinary study of the mind, perception, and sense of self. Many practices in Mindfulness can impact both the mind and body. The several books and research projects on the topic reflect this connection. This class will explore how meditation, mindfulness, Tai Chi and Yoga can affect the brain using an interdisciplinary approach within a liberal arts perspective.

Credits: 3

INDP 317 - Statistics for the Social Sciences

An enrichment course that introduces statistical concepts and techniques of data analysis with computer application to analyze contemporary social issues.

Credits: 3

INDP 318 - Research Methods in Interdisciplinary Studies

Major methods and procedures used in interdisciplinary studies, including anthropology, cultural area studies, gender and diversity studies, leadership studies, nonprofit management and sociology.

Credits: 3

INDP 319 - Anthropology Methods

Data gathering techniques and evaluation of anthropological phenomena from tribal, peasant and industrial societies.

Prerequisites & Notes

INDP 202 and INDP 317 or permission of the instructor

Credits: 3

INDP 320 - Community Change and Development

This course surveys the field of community development within the context of community collaboration and civic leadership. Topics include social capital, asset-based community development, sustainable community programs, economic development programs, private/public partnerships, and the shared role of the private, public, nonprofit sectors and everyday citizens in community development.

Credits: 3

INDP 321 - Minority Groups

An examination of the minority group concept with special emphasis on women, the poor, behavioral and physical minorities. Note: This course is taught from either a sociological or anthropological viewpoint. The student should check with the instructor to determine the approach being taken in the current offering.

Credits: 3

INDP 322 - Archaeology of the Americas

This course introduces the student to the unique intellectual and cultural achievements of the Native Civilizations of Central and South America prior to the arrival of the Spanish. Two thirds of the course concentrates on Mesoamerica, especially the Aztecs and the Maya. One third on South America, with an emphasis on the civilizations of Peru. The variety of cultural developments, including their great time depth, social, political, economic, and artistic achievements as revealed through archaeological exploration, are explored.

Credits: 3

INDP 323 - Deviant Behavior

The subject and nature of deviance with particular emphasis on its relativity and its relationship to social control and social change.

Credits: 3

INDP 324 - The Family

Comparative perspectives of the family as a universal social institution. Note: This course is taught from either a sociological or anthropological viewpoint. The student should check with the instructor to determine the approach being taken in the current offering.

Credits: 3

INDP 325 - Social and Ethical Issues in Philanthropy and Fundraising

Resource development, including grant writing and social entrepreneurs, is increasingly important to the future of nonprofit and educational organizations. This course addresses methods for integrating resource development and income generation into an organization's life. Three themes are found in this course: resource development as a management function, resource development as a management process, and issues in resource development.

Credits: 3

INDP 326 - Society, Culture and Self

An examination of the relationship between personal characteristics and social environment.

Credits: 3

INDP 327 - Religion and Society

Explores the relationship between religion and society and some of the key issues confronting religion today.

Credits: 3

INDP 328 - Program Design and Evaluation in Nonprofit and Governmental Organizations

Effective and efficient programs change lives! This course offers students the strategies and best practices for designing high quality programs, the tools and ethical framework to monitor program delivery, the qualitative and quantitative research skills essential for relevant evaluation and the necessary processes for program elimination, modification and scaling. Through case studies, service-learning projects and other hands-on assignments, students will be challenged to apply concepts to practice including the preparation of SMART objectives, logic models, project timelines, evaluation plans, program reports and recommendations for future programming.

Credits: 3

INDP 330 - Collective Behavior

An analysis of social movements, publics, crowds, mobs and similar social phenomena.

Prerequisites & Notes

Credits: 3

INDP 339 - Gender Roles and Society

An examination of gender roles, what they are, how they develop and how they are maintained. An examination of the effects of gender roles on education, occupation, the polity and other institutions as well as the effects of role restrictions of personal relationships. Note: This course is taught from either a sociological or anthropological viewpoint. The student should check with the instructor to determine the approach being taken in the current offering.

Credits: 3

INDP 340 - Social Inequality

Examination of the theoretical and practical implications of economic disparity across diverse populations: class, race, ethnicity and gender.

Credits: 3

INDP 342 - Sociology of Aging

Social changes, which accompany aging. Emphasis placed upon how social processes influence patterns of aging and social problems of older people.

Credits: 3

INDP 344 - Left and Right Brain: From Neuron to Culture

This class will explore the differences between the left and right sides of the brain. The class begins with differences in anatomy and physiology and will conclude with how these differences affect personality, culture, art, music, science, and politics. The emphasis will be an interdisciplinary approach within a Liberal Arts framework.

Credits: 3

INDP 348 - Sociology of Organizations

Approaches to the study of the structure and functions of large-scale social organizations.

Prerequisites & Notes

INDP 201 or INDP 202

Credits: 3

INDP 350 - Multicultural Leadership

Multicultural Leadership compares leadership across cultures and countries, explores the relationship between culture and leadership styles, ideas of cultural diversity and globalization, and a variety of considerations with implications for leading within and across national borders and global regions. This course also explores the challenging but increasingly important task of working across cultures in teams composed of persons from different cultures, ethnicities, racial identifications, and religious and social backgrounds.

Credits: 3

INDP 352 - Self Leadership

Before an individual can lead other people or organizations, they must first be able to lead themselves effectively. Self Leadership is a course designed to introduce students to processes, tools and strategies to overcome obstacles and to achieve goals.

Credits: 3

INDP 353 - Teambuilding for Leaders

Teambuilding for Leaders exposes students to the techniques, processes and tools to effectively build, lead and motivate multifaceted group of individuals and galvanize them into a functional and effective team oriented on achieving mutually supporting goals.

Credits: 3

INDP 354 - Strategic Planning and Decision Making for Leaders

Strategic Planning and Decision Making for Leaders introduces students to a process of planning that helps leaders apply thoroughness, clarity, sound judgment, logic, and professional knowledge to understand situations, develop options to solve problems, and reach decisions. This process helps leaders, their staffs, and others think critically and creatively while planning.

Credits: 3

INDP 355 - Leadership Development Course

Strategic Planning and Decision Making for Leaders introduces students to a process of planning that helps leaders apply thoroughness, clarity, sound judgment, logic, and professional knowledge to understand situations, develop options to solve problems, and reach decisions. This process helps leaders, their staffs, and others think critically and creatively while planning.

Credits: 3

INDP 360 - Women in Asian Societies

Students will have an opportunity to gain an in depth understanding of the issues surrounding the roles and status of women in a rapidly changing Asia; from both a historic and a current context. These issues, which are political, religious, economic, health, social justice and legal, among others are vital for women in Asia, their societies as well as this ever globalizing world.

Credits: 3

INDP 390 - Experimental

A unique and specifically focused course within the general purpose of a department which intends to offer it on a "one time only "basis and not as a permanent part of the department's curriculum.

Credits: 3

INDP 395 - Workshop

A workshop is a program which is usually of short duration, narrow in scope, often non-traditional in content and format, and on a timely topic.

Credits: 3

INDP 398 - Selected Topic

A **Selected Topics** course is a normal, departmental offering which is directly related to the discipline, but because of its specialized nature, may not be able to be offered on a yearly basis by the department.

Credits: 3

INDP 401 - Applied Anthropology

Using anthropological concepts and methods, this course explores the role of archaeologists, and physical and cultural anthropologists in understanding and facilitating change in human biological and cultural issues.

Credits: 3

INDP 412 - Basic Sociological Theory

Historical and modern development of basic concepts of sociology and cultural anthropology.

Prerequisites & Notes

(INDP 201 or INDP 202) and (INDP 318 or INDP 319) or permission of the instructor

Credits: 3

INDP 450 - Internship

Supervised placement in selected professional agencies.

Prerequisites & Notes

For Professional Studies: permission of the instructor.

Credits: 1 to 12

INDP 456 - Research in Cognitive Science

The goal of Cognitive Science is to understand the mind using insights from a variety of fields including Psychology, Computer Science, Linguistics, Philosophy, Anthropology, Sociology, and Neuroscience. Cognitive Studies is by definition an interdisciplinary field. Interdisciplinary research comprises a major component to the field. In this course, students will gain experience by conducting a research project.

Prerequisites & Notes

Prerequisites: INDP 144 and INDP 318, minimum grade of C.

Credits: 3

INDP 490 - Independent Study

Independent Study courses give students the opportunity to pursue research and/or studies that are not part of the university's traditional course offerings. Students work one on one or in small groups with faculty guidance and are typically required to submit a final paper or project as determined by the supervising professor.

Prerequisites & Notes

Permission of the instructor

Credits: 1 to 3

INDP 495 - Workshop

A workshop is a program which is usually of short duration, narrow in scope, often non-traditional in content and format, and on a timely topic.

Credits: 3

INDP 498 - Selected Topics

The in-depth examination of a specific topic. The nature of the topic selected and its treatment determined in consultation with the instructor. Also listed as SASW 498

A **Selected Topics** course is a normal, departmental offering which is directly related to the discipline, but because of its specialized nature, may not be able to be offered on a yearly basis by the department.

Prerequisites & Notes

Introductory course in the student's major, e.g. PROF 201, 202

Credits: 1 to 3

INDS 101 - FYRST Seminar

The FYRST Seminar provides students with an opportunity to become integrated into the university's community of learners by exploring the purpose and value of higher education, participating in the teaching/learning process, addressing academic and social transition issues, utilizing campus programs, services, and technology, and developing academic skills and learning strategies during the student's first semester at Slippery Rock University. This course is a one credit hour course designed to especially and exclusively assist first year students in their adjustment to college life at Slippery Rock University. No prerequisite. Enrollment by advisement. Open to first year students only. The credit earned in this course counts for graduation requirements.

Credits: 1

INDS 102 - Learning Strategies

Students will develop effective learning strategies, goals, and decision-making skills with a view toward implementing a plan to remove their probationary status and become a student in "good academic standing." This course is primarily for students on academic probation (other students may enroll with the permission of the instructor). Credits earned count for graduation as an elective.

Credits: 1

INDS 103 - Major and Career Exploration

This course will examine various decision making models as they are applied to choosing an academic major and/or career. Through a variety of in-class and out-of-class activities students will integrate self-knowledge and knowledge about majors and the world of work.

Credits: 1

INDS 121 - Freshman Research and Mentoring Experience

The FRAME Seminar introduces students to academic research skills. Students will collaborate with faculty mentors, peers and professionals to develop skills in methodologies, analyses and dissemination of scholarly work. The seminar course is intended for second semester freshman.

Credits: 1

ISE 139 - University Seminar

University Seminar serves as the entry point to the Slippery Rock University general education program. With its small seminar setting and strong faculty-student interaction, the course promotes intellectual inquiry, critical and creative thinking, and academic excellence. Through varied content, the course introduces students to academic discourse and information literacy while exploring topics such as diversity and inclusion and global awareness. This course will set students along the path to becoming engaged with issues and scholarship important to a 21st century education while they learn about themselves and their place in the world.

Credits: 3

ISE 311 - Introduction to Operations Research

Topics include deterministic methods in operations research. Linear programming, duality, integer programming, dynamic programming, nonlinear programming, inventory theory, transportation and assignment and network theory.

Prerequisites & Notes

MATH 231 with a grade of C or better; or MATH 240 with a grade of C or better; or C or better in both (MATH 122 and MATH 230)

Credits: 3

ISE 330 - Six Sigma Methodology

Statistical methods of Six Sigma used for efficient new product development as well as methods for process improvement. The math and methodology of six Sigma including DMAIC and DMADV processes. Topics will include measurement and analysis mathematical techniques. Design of experiment will be introduced. Case studies will be used to illustrate advanced concepts of Six Sigma.

Prerequisites & Notes

MATH 350 with a grade of C or better

Credits: 3

ISE 362 - Lean Service Systems

The design and delivery of services. Topics include how to design and improve service offerings for sustained excellence, how to identify and overcome challenges in service delivery. Both traditional services as well as e-commerce service will be studied for both the private and public sector.

Prerequisites & Notes

ISE 330 (which may be taken prior to or at the same time as ISE 362)

Credits: 3

ISE 370 - Design of Industrial Systems and Processes

This course covers advanced topics in Applied Engineering Statistics. It includes the introduction to linear regression analysis, simple linear models, multiple linear models, residual analysis, indicator variables, variable selection process, ANOVA, introduction to design of Industrial systems and processes, basic designs, factorial designs, fractional factorial designs, blocking, Taguchi designs, and response surface methodology. Extensive use of statistical software will be introduced throughout the course.

Prerequisites & Notes

Prerequisites: STAT 350

Credits: 3

ISE 372 - Manufacturing Systems Design and Analysis

Contemporary techniques used to design and analyze manufacturing systems for economic manufacture of products. Design of manufacturing systems (human and automated) to satisfy differing types of product demand will be explored.

Prerequisites & Notes

PHYS 212 with a grade of C or better

Credits: 3

ISE 373 - Quality Engineering

A comprehensive coverage of modern quality control techniques including the design of statistical process control systems, acceptance sampling and process improvement.

Prerequisites & Notes

Prerequisites: MATH 230 with a C or better; AND a grade of C or better in either STAT 252 or STAT 311

Credits: 3

ISE 382 - Sustainable Processes

Exploration of the scientific and legal progress in sustainability. Students will learn both the theory of sustainability as well as how sustainable processes can be implemented throughout an organization.

Prerequisites & Notes

PHYS 212 with a grade of C or better; and
MATH 230 with a grade of C or better

Credits: 3

ISE 402 - Work Design

Introductory tools required for analyzing and designing both the job and the worksite in a cost-effective manner, as well as measuring the resulting output. These tools include human information processing, basic auditory and visual displays, anthropometry and musculoskeletal principles, cumulative trauma disorders, work measurement and stopwatch time study. Students taking this course should be familiar with the basic concepts of cost.

Prerequisites & Notes

MATH 225 with a grade of C or better; and
ACCT 209 with a grade of C or better (ACCT 209 may be taken prior to or at the same time as ISE 402)

Credits: 3

ISE 410 - Engineering Project Management

This course is an introduction to the concepts and practices of project management. It provides students with a basic exposure to the tasks and challenges facing today's engineering projects and in particular, those of the project manager. This course also provides students with the quantitative tools for the successful management of engineering projects. The problems of selecting projects, initiating projects, and operating and controlling projects will be discussed in this course.

Prerequisites & Notes

Prerequisites: MATH 231 and ENGR 340

Credits: 3

ISE 420 - Simulation of Industrial Systems

In this course, the student will develop an understanding and need for discrete event simulation in practice. The course will focus on basic and advanced concepts in simulation modeling including analyzing simulation results, and successfully developing simulation models useful in production/manufacturing, supply chains, transportation, and other areas related to industrial and Manufacturing Engineering. Simulation package such as ARENA will be integrated and used throughout.

Prerequisites & Notes

Prerequisites: MATH 311 or ISE 311

Credits: 4

ISE 421 - Lean Supply Chain

Overview of key logistics and supply chain management processes, concepts and methodologies. Emphasis is given to the Lean development of supply chain management, the analysis of logistics cost and service trade-offs among inventory transportation and warehousing activities, the strategic role of information technology in supply chains, the use of third-party logistics providers, and the methods of measuring the value of logistics performance. Instruction may include problem-based learning pedagogy.

Prerequisites & Notes

ACCT 209 with a grade of C or better; and
ISE 330 with a grade of C or better

ACCT 209 and ISE 330 may be taken prior to or at the same time as ISE 421.

Credits: 3

ISE 430 - Production Planning & Control

This course equips students with knowledge of fundamental issues in production and inventory planning and control while developing the students' modeling and analytical skills. This course emphasizes the application of industrial engineering theory and practice to the area of operations management and production planning/control. This course will cover analysis and understanding of forecasting, aggregate planning, operations strategy, capacity planning, supply-chain management, just-in-time systems, lean manufacturing, agile manufacturing, materials replacement planning, inventory management, and scheduling and sequencing.

Prerequisites & Notes

Prerequisites: ENGR 340 and ISE 372

Credits: 3

ISE 432 - Productivity Analysis

Techniques for measuring and assessing productivity for output, labor, capital and input. Aggregation of productivity growth will also be discussed.

Prerequisites & Notes

MATH 231 with a grade of C or better

Credits: 3

ISE 440 - Health Care Systems Engineering

The course examines the technical structure of the healthcare delivery system and the role that industrial engineering (IE) plays in its design and improvement. Included will be how healthcare systems work in hospitals, medical offices, clinics and other healthcare organizations. Traditional IE methods for improving quality, patient safety, and employee productivity and satisfaction will be present within a systematic application of value chain engineering designed to produce lean processes.

Prerequisites & Notes

Prerequisite: ISE 311

Credits: 3

ISE 442 - Human Factors Engineering

An analytic study of human factors that need to be taken into account in the design and engineering of complex workplace systems. Body mechanics will be used to understand the needs of humans in the workplace under a variety of different constraints: physical demands, environmental conditions, human capability. system design considerations aimed at reducing safety hazards will be studied.

Prerequisites & Notes

ISE 330 with a grade of C or better

Credits: 3

ISE 460 - Engineering Risk Analysis

This course is an introduction to risk, risk assessment, and risk management in engineering systems. It focuses on building mathematical models to assess and quantify risk principally by following the methodologies of probabilistic risk analysis. In particular, the course covers concepts of risk analysis, risks in engineered systems; methods of risk analysis, fault trees and event trees; quantification of probabilities, use of data, models, and expert judgments; risks and decisions, interlinking risk analysis with risk management; applications to cybersecurity.

Prerequisites & Notes

Prerequisite: STAT 350

Credits: 3

ISE 480 - Industrial and Systems Engineering Undergraduate Research

Research and design problems of limited scope approved on an individual basis intended to promote independent study; results of study presented in writing.

Credits: 1-3

ISE 487 - Industrial and Systems Engineering Senior Project I

This course provides a proposal preparation for ISE 488 which includes defining a comprehensive problem in design involving systems in manufacturing, service, and other systems to improve efficiency and quality, and optimize the resources utilization.

Prerequisites & Notes

Prerequisites: ISE 370, ISE 420, ISE 421

Credits: 3

ISE 488 - Senior Project

Senior project in industrial and systems engineering. Requires students to complete a multi-dimensional project in their area of interest: industry, health-care, etc. The project must be approved by ISE faculty no later than the end of the fourth week of the start of the course. Students will be invited to propose their own projects or create one in collaboration with ISE faculty.

Prerequisites & Notes

None

Credits: 3

ITAL 101 - Italian Language and Culture I

A broad and practical working foundation in the language.

Credits: 3

ITAL 102 - Italian Language and Culture II

A broad and practical working foundation in the language.

Prerequisites & Notes

ITAL 101 or equivalent

Credits: 3

ITAL 103 - Italian Language and Culture III

A broad and practical working foundation in the language.

Prerequisites & Notes

ITAL 102 or equivalent

Credits: 3

ITAL 139 - University Seminar

University Seminar serves as the entry point to the Slippery Rock University general education program. With its small seminar setting and strong faculty-student interaction, the course promotes intellectual inquiry, critical and creative

thinking, and academic excellence. Through varied content, the course introduces students to academic discourse and information literacy while exploring topics such as diversity and inclusion and global awareness. This course will set students along the path to becoming engaged with issues and scholarship important to a 21st century education while they learn about themselves and their place in the world.

Credits: 3

ITAL 190 - Experimental

A unique and specifically focused course within the general purview of a department which intends to offer it on a “one time only” basis and not as a permanent part of the department’s curriculum.

Credits: 3

ITAL 195 - Workshop

A workshop is a program which is usually of short duration, narrow in scope, often non-traditional in content and format, and on a timely topic.

Credits: 3

ITAL 198 - Selected Topic

A **Selected Topics** course is a normal, departmental offering which is directly related to the discipline, but because of its specialized nature, may not be able to be offered on a yearly basis by the department.

Credits: 3

ITAL 290 - Experimental

A unique and specifically focused course within the general purview of a department which intends to offer it on a “one time only” basis and not as a permanent part of the department’s curriculum.

Credits: 3

ITAL 295 - Workshop

A workshop is a program which is usually of short duration, narrow in scope, often non-traditional in content and format, and on a timely topic.

Credits: 3

ITAL 298 - Selected Topic

A **Selected Topics** course is a normal, departmental offering which is directly related to the discipline, but because of its specialized nature, may not be able to be offered on a yearly basis by the department.

Credits: 3

ITAL 490 - Independent Study

Students have an opportunity to study selected areas in greater concentration. Independent Study courses give students the opportunity to pursue research and/or studies that are not part of the university's traditional course offerings. Students work one on one or in small groups with faculty guidance and are typically required to submit a final paper or project as determined by the supervising professor.

Prerequisites & Notes

Permission of the instructor, departmental chairperson and dean of the college where the study will be conducted

Credits: 1 to 3

JAPN 101 - Japanese Language and Culture I

This course is the first in a three course series which will provide an introduction to the Japanese language.

Credits: 3

JAPN 102 - Japanese Language and Culture II

This course is the second in a three course series which will provide an introduction to the Japanese language.

Prerequisites & Notes

JAPN 101 or equivalent

Credits: 3

JAPN 103 - Japanese Language and Culture III

This course is the third in a three course series which will provide an introduction to the Japanese language.

Prerequisites & Notes

JAPN 102 or equivalent

Credits: 3

JAPN 139 - University Seminar

University Seminar serves as the entry point to the Slippery Rock University general education program. With its small seminar setting and strong faculty-student interaction, the course promotes intellectual inquiry, critical and creative thinking, and academic excellence. Through varied content, the course introduces students to academic discourse and information literacy while exploring topics such as diversity and inclusion and global awareness. This course will set students along the path to becoming engaged with issues and scholarship important to a 21st century education while they learn about themselves and their place in the world.

Credits: 3

JAPN 190 - Experimental

A unique and specifically focused course within the general purview of a department which intends to offer it on a “one time only “basis and not as a permanent part of the department’s curriculum.

Credits: 3

JAPN 195 - Workshop

A workshop is a program which is usually of short duration, narrow in scope, often non-traditional in content and format, and on a timely topic.

Credits: 3

JAPN 198 - Selected Topic

A **Selected Topics** course is a normal, departmental offering which is directly related to the discipline, but because of its specialized nature, may not be able to be offered on a yearly basis by the department.

Credits: 3

JAPN 202 - Intermediate Japanese I

Comprehensive review of Japanese language with emphasis on developing the students’ abilities for proficient oral and written accomplishments.

Prerequisites & Notes

JAPN 103 or equivalent.

Credits: 3

JAPN 215 - Topics in Japanese Culture

This course provides deeper knowledge of Japanese culture by examining selected topics in Japanese culture. This course is taught in English.

Credits: 3

JAPN 290 - Experimental

A unique and specifically focused course within the general purview of a department which intends to offer it on a “one time only “basis and not as a permanent part of the department’s curriculum.

Credits: 3

JAPN 295 - Workshop

A workshop is a program which is usually of short duration, narrow in scope, often non-traditional in content and format, and on a timely topic.

Credits: 3

JAPN 298 - Selected Topic

A **Selected Topics** course is a normal, departmental offering which is directly related to the discipline, but because of its specialized nature, may not be able to be offered on a yearly basis by the department.

Credits: 3

JAPN 300 - Reading & Writing Japanese

This course reviews hiragana, katakana, roma-ji, and kanji characters to develop and enhance Japanese reading and writing skills.

Prerequisites & Notes

Prerequisite/Co-requisite: JAPN 300 or equivalent if not completed prior, min grade D.

Credits: 3

JAPN 303 - Professional Japanese

This course acquaints the student with formal registers and forms of communication used in all professional communication in Japan. There are no prerequisites for this course.

Prerequisites & Notes

None.

Credits: 3

JAPN 315 - Japanese Study Abroad

This course is designed for students who wish to study Japan/ Japanese society firsthand. Students will study the culture, literature, history, art, and other socio-political issues concerning the country where the program is offered. There are no prerequisites for this course.

Prerequisites & Notes

None.

Credits: 3

JAPN 390 - Experimental

A unique and specifically focused course within the general purview of a department which intends to offer it on a “one time only” basis and not as a permanent part of the department’s curriculum.

Credits: 3

JAPN 395 - Workshop

A workshop is a program which is usually of short duration, narrow in scope, often non-traditional in content and format, and on a timely topic.

Credits: 3

JAPN 398 - Selected Topic

A **Selected Topics** course is a normal, departmental offering which is directly related to the discipline, but because of its specialized nature, may not be able to be offered on a yearly basis by the department.

Credits: 3

JAPN 490 - Independent Study

Students have an opportunity to study selected areas in greater concentration. The nature of the topic is selected and its treatment are determined in consultation with the instructor.

Independent Study courses give students the opportunity to pursue research and/or studies that are not part of the university's traditional course offerings. Students work one on one or in small groups with faculty guidance and are typically required to submit a final paper or project as determined by the supervising professor.

Prerequisites & Notes

Permission of the instructor, departmental chairperson, and dean of the college where the study will be conducted.

Credits: 1 to 3

JAPN 495 - Workshop

A workshop is a program which is usually of short duration, narrow in scope, often non-traditional in content and format, and on a timely topic.

Credits: 3

JAPN 498 - Selected Topic

A **Selected Topics** course is a normal, departmental offering which is directly related to the discipline, but because of its specialized nature, may not be able to be offered on a yearly basis by the department.

Credits: 3

KORN 101 - Korean Language and Culture I

This course is the first in a three course series which will provide an introduction to the Korean language.

Credits: 3

KORN 102 - Korean Language and Culture II

This course is the second in a three course series which will provide an introduction to the Korean language.

Prerequisites & Notes

KORN 101 or equivalent

Credits: 3

KORN 103 - Korean Language and Culture III

This course is the third in a three course series which will provide an introduction to the Korean language.

Prerequisites & Notes

KORN 102 or equivalent

Credits: 3

KORN 139 - University Seminar

University Seminar serves as the entry point to the Slippery Rock University general education program. With its small seminar setting and strong faculty-student interaction, the course promotes intellectual inquiry, critical and creative thinking, and academic excellence. Through varied content, the course introduces students to academic discourse and information literacy while exploring topics such as diversity and inclusion and global awareness. This course will set students along the path to becoming engaged with issues and scholarship important to a 21st century education while they learn about themselves and their place in the world.

Credits: 3

KORN 190 - Experimental

A unique and specifically focused course within the general purview of a department which intends to offer it on a "one time only" basis and not as a permanent part of the department's curriculum.

Credits: 3

KORN 195 - Workshop

A workshop is a program which is usually of short duration, narrow in scope, often non-traditional in content and format, and on a timely topic.

Credits: 3

KORN 198 - Selected Topic

A **Selected Topics** course is a normal, departmental offering which is directly related to the discipline, but because of its specialized nature, may not be able to be offered on a yearly basis by the department.

Credits: 3

KORN 202 - Intermediate Korean I

Comprehensive review of Korean grammar with emphasis on developing the students' abilities for proficient oral and written accomplishments.

Prerequisites & Notes

KORN 103 or equivalent

Credits: 3

KORN 290 - Experimental

A unique and specifically focused course within the general purview of a department which intends to offer it on a "one time only" basis and not as a permanent part of the department's curriculum.

Credits: 3

KORN 295 - Workshop

A workshop is a program which is usually of short duration, narrow in scope, often non-traditional in content and format, and on a timely topic.

Credits: 3

KORN 298 - Selected Topic

A **Selected Topics** course is a normal, departmental offering which is directly related to the discipline, but because of its specialized nature, may not be able to be offered on a yearly basis by the department.

Credits: 3

KORN 306 - Modern Korean Civilization

Course analyzes the most significant characteristics, foreign influences, and cultural traditions that have comprised Korean culture since 1900. Course will be taught in English and is open to all interested students.

Credits: 3

KORN 390 - Experimental

A unique and specifically focused course within the general purview of a department which intends to offer it on a "one time only" basis and not as a permanent part of the department's curriculum.

Credits: 3

KORN 395 - Workshop

A workshop is a program which is usually of short duration, narrow in scope, often non-traditional in content and format, and on a timely topic.

Credits: 3

KORN 398 - Selected Topic

A **Selected Topics** course is a normal, departmental offering which is directly related to the discipline, but because of its specialized nature, may not be able to be offered on a yearly basis by the department.

Credits: 3

KORN 490 - Independent Study

Students have an opportunity to study selected areas in greater concentration. The nature of the topic selected and its treatment are determined in consultation with the instructor.

Independent Study courses give students the opportunity to pursue research and/or studies that are not part of the university's traditional course offerings. Students work one on one or in small groups with faculty guidance and are typically required to submit a final paper or project as determined by the supervising professor.

Prerequisites & Notes

Permission of the instructor, departmental chairperson, and dean of the college where the study will be conducted.

Credits: 1 to 3

KORN 495 - Workshop

A workshop is a program which is usually of short duration, narrow in scope, often non-traditional in content and format, and on a timely topic.

Credits: 3

KORN 498 - Selected Topic

A **Selected Topics** course is a normal, departmental offering which is directly related to the discipline, but because of its specialized nature, may not be able to be offered on a yearly basis by the department.

Credits: 3

LIBR 110 - Research.com

A self-paced course introducing the resources of the university library. Students will select and use print and non-print materials on assigned subjects as preparation for future library research in various disciplines. Should be scheduled after the completion of any remedial English or communication course. For course information contact the library.

Credits: 1

LIBR 139 - University Seminar

University Seminar serves as the entry point to the Slippery Rock University general education program. With its small seminar setting and strong faculty-student interaction, the course promotes intellectual inquiry, critical and creative thinking, and academic excellence. Through varied content, the course introduces students to academic discourse and information literacy while exploring topics such as diversity and inclusion and global awareness. This course will set students along the path to becoming engaged with issues and scholarship important to a 21st century education while they learn about themselves and their place in the world.

Credits: 3

LIBR 210 - Library Research Methods

Library Research Methods is an introduction to the research process including methods for identifying, retrieving and evaluating information in a library or through online sources. the aim of this course is to identify an informational need and locate, evaluate and use appropriate resources in keeping with academic integrity and ethical standards. The focus is on implementing effective strategies for finding relevant information including the selection of appropriate print and electronic sources and effective use of Bailey Library electronic resources as well as search engines to find information evaluate and correctly cite the information.

Credits: 3

LIBR 490 - Independent Study

Independent Study courses give students the opportunity to pursue research and/or studies that are not part of the university's traditional course offerings. Students work one on one or in small groups with faculty guidance and are typically required to submit a final paper or project as determined by the supervising professor.

Prerequisites & Notes

Prerequisites: Permission of the instructor

Credits: 1 to 3

MARS 110 - Introduction to Oceanography

An introduction to marine sciences with emphasis on physiography of the ocean basins, waves, tides, near-shore processes, the physical and chemical nature of seawater, circulation, characteristics of marine plant and animal communities, history of oceanography, and law of the sea.

Credits: 3

MARS 190 - Experimental

A unique and specifically focused course within the general purview of a department which intends to offer it on a "one time only" basis and not as a permanent part of the department's curriculum.

MARS 195 - Workshop

A workshop is a program which is usually of short duration, narrow in scope, often non-traditional in content and format, and on a timely topic.

MARS 198 - Selected Topic

A **Selected Topics** course is a normal, departmental offering which is directly related to the discipline, but because of its specialized nature, may not be able to be offered on a yearly basis by the department.

MARS 200 - Art Workshop-Painting of the Coastal Area

This workshop is to be an intensive involvement with the esthetic qualities of the seashore and its environs. Paintings using various media (watercolor, oils, acrylics) according to personal preference will be created. Slides and other reproductions of relevant paintings by artists of historical importance will be examined and discussed.

Credits: 3

MARS 201 - Art Workshop-Pewter and Marine Jewelry

This workshop will explore pewter and objects found in the near-shore environment as materials for making jewelry and body ornaments. Participants will learn techniques of casting, fabricating, soldering, tinning and bezel setting for the purpose of creating unique pieces.

Credits: 3

MARS 204 - Writing about the Sea

A survey of literature from several genre, both fiction and nonfiction, which focuses on maritime themes and topics.

Credits: 3

MARS 211 - Field Methods in Oceanography/Lab

A course to familiarize students with the dynamic marine environment and field work on board small research vessels, to instruct in the use and application of standard oceanographic instruments and sampling devices and to promote and encourage independent research through the initial stages of scientific projects.

Prerequisites & Notes

MARS 110 or EGEO 131 or permission of the instructor

Credits: 3

MARS 212 - Navigation

This course covers navigation, i.e. the art and science of safely bringing a boat from one position to another in a body of water. Topics covered are piloting, navigation within sight of land, electronic navigation, radio bearings by radio direction finder, LORAN, OMEGA, radar, celestial navigation, circles of equal altitude, navigational triangle, celestial lines of position, celestial fix, Greenwich Mean Time, Greenwich Hour Angle.

Prerequisites & Notes

Four years of high school math or permission of the instructor

Credits: 3

MARS 215 - Marine Wildlife Photography

This class includes an in-depth study of the science of photography and how this relates to the field work of marine biology. The student will develop skills in micro- and macrophotography and an understanding of the science of optics, filter and camera techniques, and darkroom procedures and techniques. The class will learn various chemical processes for color and black/white photography. Specific articles on marine science photography will be used to develop an understanding both within the marine science laboratory and in the field.

Prerequisites & Notes

A chemistry or biology or related laboratory course

Credits: 3

MARS 221 - Marine Invertebrates/Lab

A study of the invertebrate phyla with emphasis on development, reproduction, structure, function and classification of selected marine organisms. Laboratory field experience will be given in collection, preservation and classification of the phyla.

Prerequisites & Notes

One year of biology or permission of the instructor

Credits: 3

MARS 241 - Marine Biology/Lab

A study of plant and animal life in the marine environment. Emphasis will be on physical and chemical environmental factors affecting the biota in the inter-tidal, open water, and benthic habitats. Common biota characteristic of each habitat will be investigated in terms of their natural history, morphology, and ecological relationships.

Prerequisites & Notes

One semester of biology or permission of the instructor

Credits: 3

MARS 250 - Wetland Ecology/Lab

The ecology and management of wetland wildlife with emphasis on the management of wetlands as ecological systems.

Credits: 3

MARS 260 - Marine Ecology/Lab

A study of the ecology of marine organisms, the relationship of plants and animals to physical, chemical and biological factors and their zonation and communities.

Prerequisites & Notes

One year of biology or permission of the instructor

Credits: 3

MARS 270 - Coastal Vegetation/Lab

In-depth examination of vegetation falling under the marine influence. Identification of same and determination of factors limiting and controlling their distribution.

Credits: 3

MARS 280 - Field Biology

An introduction to basic principles of ecology and natural history of selected plants and animals in terrestrial, freshwater, and marine environments. Course is suitable for non-science majors.

Credits: 3

MARS 285 - Recreation Management/Development in the Coastal Zone

This course focuses on the recreation component of coastal zone management. The nature, extent, location, and value of coastal recreation behavior will be probed and related to the overall coastal management framework.

Credits: 3

MARS 290 - Experimental

A unique and specifically focused course within the general purview of a department which intends to offer it on a "one time only "basis and not as a permanent part of the department's curriculum.

MARS 295 - Workshop

A workshop is a program which is usually of short duration, narrow in scope, often non-traditional in content and format, and on a timely topic.

MARS 298 - Selected Topics

An opportunity for intensive study on a specific topic of interest. Course duration from 1 to 3 weeks.

A **Selected Topics** course is a normal, departmental offering which is directly related to the discipline, but because of its specialized nature, may not be able to be offered on a yearly basis by the department.

Prerequisites & Notes

Variable, depending on the topic

Credits: 1 to 3

MARS 300 - Behavior of Marine Organisms/Lab

Concepts of ethology; discussion and observation of the influences of external and internal factors on the regulation and control of behavior of organisms living in the marine coastal environment.

Prerequisites & Notes

BIOL 101 or BIOL 104

Credits: 3

MARS 310 - The Mammals of Coastal Ecosystems/Lab

Distribution, behavior, physiology, adaptations, and ecological relationships of mammals with special emphasis on the mammals of the Delmarva Peninsula. In addition to the lectures and seminars, the laboratory and field work will deal with the productivity, population dynamics, species diversity, ecoenergetics, and behavior of local mammals.

Prerequisites & Notes

BIOL 101 or BIOL 104

Credits: 3

MARS 320 - Marine Microbiology/Lab

A survey of methods and concepts of marine microbiology. Attention will be given to technical aspects of sample collection, microbial ecology of the marine environment, enrichment culturing, methods of enumeration and identification with emphasis on marine bacteria.

Prerequisites & Notes

BIOL 330

Credits: 3

MARS 330 - Tropical Invertebrates/Lab

An introduction to tropical invertebrates. A variety of collection and observation methods will be used to sample near-shore and reef areas. Emphasis will be on systematics and ecology using the communities approach. One week at Wallops will be intensive review of general systematics and ecology of marine invertebrates. The last two weeks in Florida will involve sampling and identifying species and describing ecological communities.

Prerequisites & Notes

Marine Invertebrates, Invertebrate Zoology or a thorough Zoology course with permission of the instructor

Credits: 3

MARS 331 - Chemical Oceanography/Lab

Treatment of a wide range of oceanic chemical phenomena, including salinity and age of the oceans, sources and residence times of chemical constituents in seawater, geochemical cycles of mineral resources and trace elements. Sampling and laboratory analysis techniques.

Prerequisites & Notes

MARS 110 or EGEO 131 and one year of Chemistry or permission of the instructor

Credits: 3

MARS 342 - Marine Botany/Lab

A study of marine and marine fringe plants of the Middle Atlantic Coast, their taxonomy, ecology, distribution, life histories, physiology, and economic status. Techniques of collecting, preserving, identifying and herbarium cataloging will be stressed. Exercises in plant ecology and marine microbiology will be included.

Prerequisites & Notes

BIOL 101 or BIOL 104 or BIOL 201 or permission of the instructor

Credits: 3

MARS 343 - Marine Ichthyology/Lab

A study of the fishes. Specimens collected along the eastern seaboard by the students will be used to illustrate the anatomy, physiology and systematics of this major vertebrate group. Field collections will also give students the opportunity to observe the relationships of these animals to their biotic and physical environment.

Prerequisites & Notes

BIOL 101 or BIOL 104 or permission of the instructor

Credits: 3

MARS 344 - Anatomy of Marine Chordates/Lab

A course designed to familiarize the students with the qualitative aspects of the speciation process; to lay ground work for understanding the basic and specialized structure of marine chordates; to trace the most obvious or important trends (and their functional significance) in the evolution of this basic structure in various vertebrate lines. The laboratories will be devoted primarily to dissection of representative marine vertebrates, particularly those collected live on field trips.

Prerequisites & Notes

(BIOL 101 or BIOL 104) AND BIOL 212

Credits: 3

MARS 345 - Ornithology/Lab

Introduces the student to avian fauna of the seacoast and at the same time enables comparison with inland species. In addition to the field work providing visual and vocal identification, lecture material will include information on the distribution, behavior, physiology, and anatomy of birds.

Prerequisites & Notes

One year of biology or permission of the instructor

Credits: 3

MARS 350 - Physiology of Marine Invertebrates/Lab

Mechanisms and regulation of organ function in marine invertebrates with emphasis on homeostasis. Invertebrate examples of fundamental principles and of unique physiological mechanisms.

Prerequisites & Notes

BIOL 101 or BIOL 104

Credits: 3

MARS 362 - Marine Geology/Lab

Structure and sedimentology of the ocean basins and shores; methods of exploration, general feature of the ocean basins, and theory of ocean basin evolution.

Prerequisites & Notes

MARS 110 and one semester of Geology or permission of the instructor

Credits: 3

MARS 364 - Physical Oceanography/Lab

A study of the physical properties of the oceans to include: mass and energy budgets; theory of distribution of variables; cause, nature, measurement, analysis and prediction of tides, currents and waves; basic instrumentation in field work.

Prerequisites & Notes

MARS 110 or EGEO 131 or permission of the instructor

Credits: 3

MARS 390 - Experimental

A unique and specifically focused course within the general purview of a department which intends to offer it on a “one time only” basis and not as a permanent part of the department’s curriculum.

MARS 394 - Comparative Physiology of Marine Organisms/Lab

This course will provide an introduction to the physiology of marine organisms utilizing a comparative approach. The lecture will introduce the topics of respiration, circulation, metabolism, osmoregulation, thermoregulation, locomotion and sensory systems by drawing comparisons between the mechanisms and strategies utilized by a wide range of marine organisms. Laboratory and field work will focus on the physiological responses of marine plants and animals to common environmental stresses such as salt load, temperature variation, depletion of dissolved oxygen, and tidal flux. This will be accomplished through measurements and observations in the field, as well as through experimental manipulations in a laboratory setting.

Credits: 3

MARS 395 - Workshop

A workshop is a program which is usually of short duration, narrow in scope, often non-traditional in content and format, and on a timely topic.

MARS 398 - Selected Topics

An opportunity of intensive study in a specific topic of interest. Course duration from 1 to 3 weeks.

A **Selected Topics** course is a normal, departmental offering which is directly related to the discipline, but because of its specialized nature, may not be able to be offered on a yearly basis by the department.

Prerequisites & Notes

BIOL 101 or BIOL 104

Credits: 3

MARS 420 - Marine Micropaleontology/Lab

Designed for students majoring in either biological or geological sciences, the course will deal with modern, living representatives of micro-organisms important in the fossil record. Particular emphasis will be on the taxonomy, morphology, evolution and ecological affinities of the Foraminifera (Sarcodina), but other groups, including the Radiolaria, Diatoms and Ostracoda, will also be considered. Laboratory and field aspects will include sample collecting, preparation and analysis.

Prerequisites & Notes

One year of Geology or Biology or permission of the instructor

Credits: 3

MARS 431 - Ecology of Marine Plankton/Lab

Study of the phytoplankton and zooplankton in marine and brackish environments. Qualitative and quantitative comparisons will be made between the planktonic populations of various types of habitats in relation to primary and secondary productivity.

Prerequisites & Notes

One year of Biology

Credits: 3

MARS 432 - Ecology

The study of the ecological mechanisms underlying evolutionary processes. This course is broad in scope and requires that students synthesize both evolutionary and ecological concepts and theory into an understanding of how organisms adapt to their environment. Marine, estuarine, and maritime organisms will be used as model systems and processes, which affect marine populations, will be emphasized.

Credits: 3

MARS 441 - Biology of Molluscs

The Mollusca is the second largest group of animals and perhaps the most diverse in terms of morphological, ecological and behavioral variations. This course offers an evolutionary, functional, and ecologic approach to studying this important group of organisms.

Credits: 3

MARS 451 - Coastal Environmental Oceanography

This course examines the interaction of biological, chemical, physical, geological and ecological ocean processes as applied to coastal environments. Emphasis is placed on environmental management issues of the coastal zone. Topics include water quality analysis, barrier island geology and ecology, estuarine pollution, beach defense and biological implications in areas of coastal up welling and coastal fronts. Specific cases in coastal pollution will be examined from coastal environments around the U.S., including Kepone in the James River, VA, DDT on the Palos Verde Shelf, CA., Eutrophication on the North Carolina Coast, The Exxon-Valdex Oil spill and Pfiesteria in the coastal waters of N.C. and VA. Cross listed as MARS551.

Prerequisites & Notes

MARS 110 or EGEO 131

Credits: 3

MARS 457 - Marine Geophysics/Lab

A study of the basic geophysical theories about the transmission of shock waves, and gravity and magnetic fields to the understanding and exploration of the continental shelves and marine basins. The student is introduced to the use and limitations of the portable seismic refraction seismograph, gravity meter, and magnetometer.

Prerequisites & Notes

MARS 110 or EGEO 131 or permission of instructor

Credits: 3

MARS 458 - Exploration Methods in Marine Geology/Lab

A study of geophysical and geologic instruments and techniques used to penetrate the water layer obscuring the ocean bottom topography and geology and the results of some of that effort. Emphasis is on laboratory and field assignments using basic geophysical and geological instruments. The students are introduced to the use, limitations and results of these instruments.

Prerequisites & Notes

EGEO 101 or permission of the instructor

Credits: 3

MARS 459 - Coastal Geomorphology/Lab

A study of coastal environments with an emphasis on understanding the inter-relationship among land forms, processes and materials. The student will participate in field studies conducted along high and low wave energy environments.

Prerequisites & Notes

One year of Geology or Physical Geography (landforms) or permission of the instructor

Credits: 3

MARS 464 - Biological Oceanography

Interdisciplinary study of the interactions between biological communities and the ocean environment as seen by distributions of coastal plankton, fish, and benthic invertebrates. Projects will involve boat trips to sample populations and to quantitatively document environmental variables with state of the art equipment, laboratory and field experiments to determine rate processes, and visits to nearby field and government laboratories. Examples of project topics include transport of plankton at barrier island passes, effect of submarine banks on fish populations, ground truth data for satellite imagery, and other current topics in biological oceanography.

Prerequisites & Notes

MARS 110 or EGEO 131

Credits: 3

MARS 490 - Independent Study

Independent research under the guidance of a faculty member. Independent Study courses give students the opportunity to pursue research and/or studies that are not part of the university's traditional course offerings. Students work one on one or in small groups with faculty guidance and are typically required to submit a final paper or project as determined by the supervising professor.

May be repeated for up to 6 credits.

Prerequisites & Notes

Permission of the instructor, departmental chairperson, and dean of the college where the study will be conducted.

Credits: 3

MARS 491 - Coral Reef Ecology

A study of coral reef structure, formation, types, and the relationships of reef organisms to their environment. Emphasis is given to species diversity, identification, symbioses, and effects of temperature, salinity, light, nutrient concentration, predation, and competition on the abundance and the distribution of coral reef organisms.

Credits: 3

MARS 492 - Marine Mammals

A study of the distribution, population ecology, behavior, physiology and adaptations of marine mammals. Student projects will entail collecting physiological and behavioral data at field sites and at facilities studying marine mammals.

Credits: 3

MARS 493 - Behavioral Ecology

Designed to present animal behavior within an ecological and evolutionary context. Presents mathematical and theoretical framework of behavioral ecology. An in-depth exploration of the ways in which the behavior of animals is influenced by the environment, especially with regard to resource distribution.

Credits: 3

MARS 494 - Marine Aquaculture

This course will include the theory and practice of raising organisms for food and for the aquarium trade. Techniques for raising economically important organisms from the egg stage to marketable size and their food supplies will be studied.

Prerequisites & Notes

Nine credits in Biology

Credits: 3

MARS 495 - Workshop

A workshop is a program which is usually of short duration, narrow in scope, often non-traditional in content and format, and on a timely topic.

MARS 498 - Selected Topics

An opportunity of intensive study in a specific topic of interest. Course duration from 1 to 3 weeks.

A **Selected Topics** course is a normal, departmental offering which is directly related to the discipline, but because of its specialized nature, may not be able to be offered on a yearly basis by the department.

Prerequisites & Notes

Variable, depending on the topic

Credits: 1 to 3

MARS 500 - Problems in Marine Science

Graduate or undergraduate students after advanced registration in the course may complete the course requirements by either of the following options: Students may elect to take a 200-, 300-, or 400-level course in which they desire advanced work and complete, in addition to the regular course requirements, an approved project in the area under the direction of the instructor; or the student may do an independent research project. In order to be admitted to the latter option, students must submit a research proposal to the academic committee of the Marine Science Consortium. The proposal must include the scope and duration of the proposed research, equipment and facilities required, and a recommendation and approval from the academic advisor.

Credits: 3

MARS 510 - Oceanography (In-Service Teachers)

An introductory course to familiarize teachers with the nature of the oceans and create an awareness of the interdisciplinary nature of oceanography. The teachers will have the opportunity to participate in field activities, develop skills in handling marine instruments, and perform investigative laboratory activities, which will enhance their effectiveness in classroom teaching of oceanography through personal experience.

Credits: 3

MARS 530 - Coastal Sedimentation/Lab

Study of depositional environments of marine-dominated shorelines; their processes, sediments, sedimentary facies; models for recognizing ancient counterparts in rock record; and growth and development of barrier island-tidal deltas.

Prerequisites & Notes

MARS 362 or permission of the instructor

Credits: 3

MARS 540 - Environmental Science Education

A field-oriented approach to environmental education with special emphasis on coastal zones. Students will relate their own disciplines to education for quality environments. Consideration will be given to sources, facilities, methods, techniques and concepts used in environmental education.

Credits: 3

MARS 551 - Coastal Environment Oceanography

This course examines the interaction of biological, chemical, physical, geological and ecological ocean processes as applied to coastal environments. Emphasis is placed on environmental management issues of the coastal zone. Topics include water quality analysis, barrier island geology and ecology, estuarine pollution, beach defense and biological

implications in areas of coastal up welling and coastal fronts. Specific cases in coastal pollution will be examined from coastal environments around the U.S., including Kepone in the James River, VA, DDT on the Palos Verde Shelf, CA., Eutrophication on the North Carolina Coast, The Exxon-Valdex Oil spill and Pfsteria in the coastal waters of N.C. and VA. Cross listed as MARS451.

Credits: 3

MARS 555 - Ocean Resources

This is an introductory course designed to emphasize the potential resources and the feasibilities of their exploitation. The role of ocean science and engineering in accomplishing this goal will be covered.

Credits: 3

MATH 113 - Mathematics as a Liberal Art

A cultural enrichment course, which introduces topics and applications from different branches of mathematics.

Prerequisites & Notes

ACSD 110 or equivalent

Credits: 3

MATH 115 - Financial Mathematics

Methods of solving problems arising from the growth of money through simple and compound interest. Savings accounts, loans, financing, mortgages, depreciation, bonds, pensions and life insurance are included.

Prerequisites & Notes

ACSD 110 or equivalent

Credits: 3

MATH 117 - Quantitative Reasoning

Description: Quantitative reasoning is the application of basic mathematical skills to the analysis and interpretation of real-world quantitative information to draw conclusions that are relevant to people in their daily lives. In this course, students will explore various quantitative models and their interpretations in a way that emphasizes mathematical and statistical reasoning skills.

Conceptual understanding will be stressed over manipulative skills. Students will learn to create sophisticated arguments supported by quantitative evidence and clearly communicate them in a variety of formats (using words, tables, graphs, mathematical equations, etc.) as appropriate. Technology, such as spreadsheets, will also be used. This course satisfies the Quantitative Reasoning requirement in the Rock Studies Program. This course is graded A, B, C, NC.

Prerequisites & Notes

Prerequisite: ACSD 110 or appropriate placement.

Credits: 3

MATH 118 - Elementary Geometry

A survey of Euclidean geometry and related elementary geometrical concepts. This course is not appropriate for those planning to teach geometry at the secondary level, but would be an excellent choice for those who will be teaching mathematics in the elementary school.

Prerequisites & Notes

ACSD 110 or equivalent

Credits: 3

MATH 120 - Intermediate Algebra

Linear functions, equations, inequalities, polynomials, algebra of functions, rational exponents, quadratic equations and inequalities, systems of equations. Course is graded A,B,C, or NC.

Prerequisites & Notes

ACSD 110 or equivalent

Credits: 3

MATH 122 - Finite Mathematics with Matrices

The algebra of matrices with applications in linear optimization, algebraic and graphical solutions.

Prerequisites & Notes

MATH 120 or equivalent

Credits: 3

MATH 123 - Introduction to Applied Calculus

The course is compatible with the background and interests of students not majoring in the physical sciences or mathematics. The theorem-proof approach of differential calculus is replaced with the explanation-example approach. The course includes an introduction to exponential and logarithmic functions, limits, derivatives, maxima/minima, and Lagrange multipliers, and applications from business, economics, and finance. Problem-solving with mathematical software will also be emphasized.

Prerequisites & Notes

MATH 120 or MATH 125 or equivalent

Credits: 3

MATH 125 - Precalculus

A bridge between high school algebra and calculus involving polynomial, trigonometric, logarithmic, exponential functions, complex numbers, and the conic sections.

Prerequisites & Notes

MATH 120; or two years of high school algebra and appropriate placement score

Credits: 4

MATH 131 - Discrete Mathematics

Topics include propositional calculus, set theoretic concepts, relations and functions, mathematical induction, counting techniques, recursion, graphs and trees.

Prerequisites & Notes

MATH 125 or MATH 225 or MATH 230; or high school Trigonometry/Precalculus and appropriate placement score

Credits: 3

MATH 139 - University Seminar

University Seminar serves as the entry point to the Slippery Rock University general education program. With its small seminar setting and strong faculty-student interaction, the course promotes intellectual inquiry, critical and creative thinking, and academic excellence. Through varied content, the course introduces students to academic discourse and information literacy while exploring topics such as diversity and inclusion and global awareness. This course will set students along the path to becoming engaged with issues and scholarship important to a 21st century education while they learn about themselves and their place in the world.

Credits: 3

MATH 180 - Introduction to Mathematical Software

An introduction to the appropriate use of mathematical software with emphasis on problem solving. Topics will include mathematical concepts from calculus, linear algebra, and differential equations.

Prerequisites & Notes

Co-requisites: MATH 225

Credits: 1

MATH 190 - Experimental

A unique and specifically focused course within the general purview of a department which intends to offer it on a "one time only" basis and not as a permanent part of the department's curriculum.

MATH 195 - Workshop

A workshop is a program which is usually of short duration, narrow in scope, often non-traditional in content and format, and on a timely topic.

MATH 198 - Selected Topic

A **Selected Topics** course is a normal, departmental offering which is directly related to the discipline, but because of its specialized nature, may not be able to be offered on a yearly basis by the department.

MATH 210 - Elementary Mathematics I

This course explores the development of the number system through the integers, using a problem solving approach. Emphasis on place-value and arithmetic operations is essential if these future teachers are to engage their students in higher levels of mathematics.

Prerequisites & Notes

ACSD 110 or equivalent and Freshman II standing

Credits: 3

MATH 225 - Calculus I

Limits, continuity. Differential calculus for algebraic and transcendental functions of one variable with applications. Introduction to integration.

Prerequisites & Notes

A grade of C or higher in MATH 125; or high school Trigonometry/Precalculus and appropriate placement score

Credits: 4

MATH 230 - Calculus II

Integral calculus for functions of one variable. Definite integrals, techniques of integration, and applications. Infinite series.

Prerequisites & Notes

A grade of C or higher in MATH 225

Credits: 4

MATH 231 - Calculus III

Differential and integral calculus for functions of several variables and vector fields.

Prerequisites & Notes

A grade of C or higher in MATH 230

Credits: 4

MATH 235 - Foundations of Mathematical Proof

This course provides a foundation for writing mathematical proofs. Students will work common proof techniques such as direct proof, proof by contrapositive, and proof by contradiction, along with the logical bases supporting them. In developing their proof-writing skills, students will work with foundational mathematical concepts such as basic set theory, induction, relations between sets, and functions.

Prerequisites & Notes

MATH 225 and MATH 131

Credits: 3

MATH 240 - Linear Algebra and Differential Equations

Computational aspects of matrices, determinants, systems of linear equations, vector spaces, linear dependence, Wronskian, characteristic values, elementary differential equations, separable and exact equations, linear differential equations with constant coefficients.

Prerequisites & Notes

MATH 230

Credits: 3

MATH 280 - Theory of Interest

A rigorous, calculus based treatment of the Theory of Interest, including simple and compound interest, annuities, bonds, yield rates, amortization schedules and sinking funds, yield curves, and practical applications. This course is intended to prepare students for the Society of Actuaries examination on the theory of interest.

Prerequisites & Notes

MATH 230

Credits: 3

MATH 281 - Actuarial Exam Preparation I

The purpose of this course is to prepare students for The Society of Actuaries' (SOA) first professional examination. Topics will be selected from the SOA syllabus which currently includes general probability theory, univariate and multivariate probability distributions (discrete and continuous), applications involving insurance and risk analysis, and supporting topics from Calculus.

Prerequisites & Notes

Permission from instructor

Credits: 1

MATH 282 - Actuarial Exam Preparation II

The purpose of this course is to prepare students for The Society of Actuaries' (SOA) second professional examination. Topics will be selected from the SOA syllabus which currently includes time value of money, yield rates, methods of loan repayment, annuities, asset/liability management, immunization, duration, convexity, bonds, stocks, mutual funds, capital budgeting, short sales, spot and forward rates, options, derivatives, futures, and arbitrage.

Prerequisites & Notes

MATH280

Credits: 1

MATH 290 - Experimental

A unique and specifically focused course within the general purview of a department which intends to offer it on a “one time only” basis and not as a permanent part of the department’s curriculum.

MATH 295 - Workshop

A workshop is a program which is usually of short duration, narrow in scope, often non-traditional in content and format, and on a timely topic.

MATH 298 - Selected Topic

A **Selected Topics** course is a normal, departmental offering which is directly related to the discipline, but because of its specialized nature, may not be able to be offered on a yearly basis by the department.

MATH 301 - Differential Equations I

First and second order differential equations, existence and uniqueness theorems, Laplace transforms, systems of linear ordinary differential equations.

Prerequisites & Notes

MATH 230

Credits: 3

MATH 302 - Differential Equations II

A continuation of MATH 301. Series solutions of ordinary differential equations, non-linear systems and stability, partial differential equations.

Prerequisites & Notes

MATH 301

Credits: 3

MATH 304 - Geometric Structures

Finite and infinite axiomatic systems, including Euclidean and projective geometrics.

Prerequisites & Notes

MATH 235

Credits: 3

MATH 309 - Linear Algebra

Matrices and systems of linear equations, determinants, vector spaces, linear transformations, linear dependence, eigenvalues and eigenvectors.

Prerequisites & Notes

MATH 230

Credits: 3

MATH 310 - Elementary Mathematics II

This course finishes exploring the development of the number system by looking at the rational and real numbers and then looks at measurement, statistics, and probability. This course will not count as an upper division course for mathematics majors.

Prerequisites & Notes

MATH 210

Credits: 3

MATH 311 - Deterministic Models of Operations Research

Topics include deterministic methods in operations research. Linear programming, duality, integer programming, dynamic programming, nonlinear programming, inventory theory, transportation and assignment and network theory.

Prerequisites & Notes

MATH 231 with a grade of C or better; or MATH 240 with a grade of C or better; or C or better in both (MATH 122 and MATH 230)

Credits: 3

MATH 312 - Stochastic Models of Operations Research

Decision making under uncertainty. Probability, Markov Chains, Poisson processes, Survival Analysis, Queueing Systems, Random Walk, Branching.

Prerequisites & Notes

MATH 231 with a grade of C or better; or
MATH 240 with a grade of C or better ; or

a grade of C or better in both (MATH 122 and MATH 230)

Credits: 3

MATH 313 - Introductory Analysis I

Cardinality, topology of the real numbers, sequences and continuity of functions.

Prerequisites & Notes

MATH 231 and MATH 235

Credits: 3

MATH 314 - Introductory Analysis II

Differentiation, Mean Value Theorem, Integration, series (convergence, exponential, trigonometric functions).

Prerequisites & Notes

MATH 313

Credits: 3

MATH 315 - Numerical Mathematics

The mathematics of computation and approximation, interpolation, calculating the roots of equations, curve fitting linear systems, numerical differentiation and integration and error analysis.

Prerequisites & Notes

MATH 230 and a computer language (this will be enforced with a Special Approval permit from the instructor)

Credits: 3

MATH 316 - Advanced Methods of Operations Research

Topics include Brownian motion, stationary processes, weak convergence of stochastic processes, regenerative phenomena, random walks, simulations.

Prerequisites & Notes

MATH 312 with a grade of C or better

Credits: 3

MATH 317 - Complex Variables

Complex numbers, analytic functions, complex integration, convergence of sequences and series, and applications.

Prerequisites & Notes

Prerequisites: MATH 231

Credits: 3

MATH 320 - Theory of Numbers

A study of the properties of natural numbers and number theoretic functions.

Prerequisites & Notes

MATH 235

Credits: 3

MATH 325 - Abstract Algebra I

An introduction to groups. Topics include integers mod n , cyclic groups, permutation groups, normal subgroups, isomorphisms, finite Abelian groups.

Prerequisites & Notes

MATH 235

Credits: 3

MATH 326 - Abstract Algebra II

An introduction to rings. Topics include integral domains, fields, polynomial rings.

Prerequisites & Notes

MATH 325

Credits: 3

MATH 331 - Mathematical Methods of Physics

Applications in physical science and engineering of the following: vector analysis, complex variables, Fourier and Laplace transforms, linear algebra, and some boundary value problems. Cross-linked as PHYS 331. This course may be counted as a physics course or as a mathematics course, but not both.

Prerequisites & Notes

PHYS 211 and MATH 240; Co-requisite: MATH 231

Credits: 3

MATH 335 - Mathematical Modeling

A general introduction to mathematical modeling involving optimization, dynamic and probabilistic models. Specific topics selected from dimensional analysis, optimization techniques, continuous and discrete modeling, stability analysis, linearization, eigenvalue methods, qualitative analysis, Markov chains, regression models, simulation techniques, and others as time permits.

Prerequisites & Notes

Math 231

Credits: 3

MATH 390 - Experimental

A unique and specifically focused course within the general purview of a department which intends to offer it on a "one time only" basis and not as a permanent part of the department's curriculum.

MATH 395 - Workshop

A workshop is a program which is usually of short duration, narrow in scope, often non-traditional in content and format, and on a timely topic.

MATH 398 - Selected Topic

A **Selected Topics** course is a normal, departmental offering which is directly related to the discipline, but because of its specialized nature, may not be able to be offered on a yearly basis by the department.

MATH 403 - Elementary Topology

Topological properties of the real line.

Prerequisites & Notes

MATH 309 and MATH 313

Credits: 3

MATH 406 - Intermediate Analysis

Selected topics.

Prerequisites & Notes

MATH 314

Credits: 3

MATH 411 - Partial Differential Equations

This course in partial differential equations has wide-ranging applications in a variety of fields such as engineering and physics. Topics include first order equations and the method of characteristics; an introduction to Fourier series; second order equations including the heat, wave, and Laplace equations; numerical methods for computing solutions; conservation laws.

Prerequisites & Notes

Prerequisites: MATH 231 and MATH 301

Credits: 3

MATH 482 - Actuarial Mathematics

Interest rate models, including the Vasicek and Cox-Ingersoll-Ross bond price models, rational valuation of derivative securities, simulation and risk management techniques.

Prerequisites & Notes

MATH 231 and MATH 280 and (MATH 353 or STAT 353)

Credits: 3

MATH 484 - Life Contingencies

An introduction to survival models, individual life insurance and life annuities including determining premiums and reserves using a stochastic approach. It will include multiple life theory, binomial models, geometric Brownian motion and simulation in option pricing. It will develop a theoretical basis of contingent payment models and the application

of those models to insurance risk.

Prerequisites & Notes

MATH 231 and MATH 280 and MATH 353

Credits: 3

MATH 490 - Independent Study

Supervised study in advanced area. Prerequisites: Two 300-level mathematics courses, a 3.000 GPA in major, permission of the instructor, departmental chairperson, and dean of the college where the study will be conducted. Independent Study courses give students the opportunity to pursue research and/or studies that are not part of the university's traditional course offerings. Students work one on one or in small groups with faculty guidance and are typically required to submit a final paper or project as determined by the supervising professor.

Credits: 1 to 3

MATH 491 - Mathematics Seminar

Designed to broaden the students' backgrounds by investigating topics in mathematics not usually taught in the regular curriculum. Students may elect to take course up to three times.

Prerequisites & Notes

MATH 235 and one 300 or higher level math course or permission of the instructor

Credits: 1

MATH 495 - Workshop

A workshop is a program which is usually of short duration, narrow in scope, often non-traditional in content and format, and on a timely topic.

MATH 498 - Selected Topics

The in-depth examination of a specific topic. The nature of the topic selected and its treatment determined in consultation with the instructor.

A **Selected Topics** course is a normal, departmental offering which is directly related to the discipline, but because of its specialized nature, may not be able to be offered on a yearly basis by the department.

Credits: 1 to 3

MECH 139 - University Seminar

University Seminar serves as the entry point to the Slippery Rock University general education program. With its small seminar setting and strong faculty-student interaction, the course promotes intellectual inquiry, critical and creative thinking, and academic excellence. Through varied content, the course introduces students to academic discourse and information literacy while exploring topics such as diversity and inclusion and global awareness. This course will set students along the path to becoming engaged with issues and scholarship important to a 21st century education while

they learn about themselves and their place in the world.

Credits: 3

MECH 310 - Machines and Mechanisms

Analysis of motion and forces in linkages and mechanisms. Synthesis of plane mechanisms, analysis of cams, gears and gear trains. Fundamentals of vibrations in machines. Analysis techniques include graphical, analytical and computational methods.

Prerequisites & Notes

Prerequisite: ENGR 240

Credits: 4

MECH 320 - Manufacturing Processes

Introduction to properties and uses of engineering materials. Introduction to mechanical testing methods, metrology, tolerances, testing and inspection; semi-finished product manufacturing; macro-processing (forming, casting, powder metallurgy, metal working, composite fabrication); joining; nontraditional manufacturing processes; and surface processing.

Prerequisites & Notes

Prerequisites: ENGR 220 and ENGR 230

Credits: 3

MECH 330 - Introduction to Mechatronics

Selection of mechanical and electronic components and integration of these components into complex systems. Hands-on laboratory and design experiments with components and measurement equipment used in the design of mechatronic products.

Prerequisites & Notes

Prerequisite: ENGR 310

Credits: 4

MECH 340 - Heat Transfer

One-, two-, three-dimensional steady state conduction; transient conduction; free and forced convection; radiation; heat exchangers; heat and mass transfer by analytical, numerical analogical and experimental methods; design of thermal systems.

Prerequisites & Notes

Prerequisites: ENGR 320 and MATH 240

Credits: 4

MECH 410 - Machine Design

Application of fundamental engineering principles to the design of various elements found in machines. Elements include connections, shafts, keys, couplings, springs, gears, belts, chains, bearings, clutches, brakes, screws, etc.

Prerequisites & Notes

Prerequisite: ME 310

Credits: 4

MECH 411 - Mechanical Control Systems

Introduction to theory of feedback and control. Performance and stability of linear systems. Design of feedback control systems. Practical application and introduction to state-space methods.

Prerequisites & Notes

Prerequisites: ENGR 310 and MECH 410

Credits: 3

MECH 420 - Design and Manufacturing

Manufacturing methods and operations. The interaction between design and manufacturing stressed in terms of drawing specifications versus process capability and tolerances, including standards applications and redesign for producibility.

Prerequisites & Notes

Prerequisite: MECH 320

Credits: 3

MECH 421 - Mechanical Vibrations

Introduction to mechanical vibrations: single and multi-degree of freedom systems, free and forced vibrations, impedance and modal analysis including applications.

Prerequisites & Notes

Prerequisites: MECH 410 and ENGR 240

Credits: 3

MECH 422 - Thermal System Design

Device design and system design of compressors, turbines, heat exchangers, piping systems, internal combustion engines, and other component equipment. Optimization including thermo-economic evaluation and energy analysis.

Prerequisites & Notes

Prerequisites: MECH 340

Credits: 3

MECH 423 - Additive Manufacturing

Introduction to technologies and processes used to translate virtual solid model data into physical models for prototyping and end-use manufacturing applications. Discussion of design tools and design considerations for additively manufactured components.

Prerequisites & Notes

Prerequisites: MECH 320

Credits: 3

MECH 430 - Mechatronics

Instrumentation and measurements emphasizing systems that combine electronics and mechanical components with modern controls and microprocessors. First and second order behavior, transducers and intermediate devices, measurement of rapidly changing engineering parameters, microcontrollers and actuators.

Prerequisites & Notes

Prerequisites: MECH 330

Credits: 3

MECH 431 - Introduction to Robotics

Introduction to robots and their types. Homogeneous transformations. Kinematic equations and their solutions. Motion trajectories, statics, dynamics, and control of robots. Robot programming. Actuators, sensors and vision systems.

Prerequisites & Notes

Prerequisites: ENGR 310 and MECH 330

Credits: 3

MECH 440 - HVAC Systems

The analysis and design of heating air conditioning systems. Topics include: psychometrics, comfort & health, heating and cooling loads, solar radiation, air distribution systems and refrigeration.

Prerequisites & Notes

Prerequisites: MECH 340

Credits: 3

MECH 441 - Sustainable Energy

The technical, economic, environmental and physical resources constraints of energy sources are discussed in terms of both national and global development needs. The current states of both non-renewable and renewable technologies are presented in terms of their potential contribution to sustainable energy resources required for continued viable economic development.

Prerequisites & Notes

Prerequisites: ENGR 320

Credits: 3

MECH 460 - Capstone Design

Capstone Design course is the culmination of the educational experience in Mechanical Engineering. The courses require students to draw upon all previous coursework and cultivate new skills in order to solve complex design problems associated with an assigned group project.

Prerequisites & Notes

Senior class level. Prerequisites: MECH 340, MECH 410, MECH 420, MECH 430

Credits: 3

MGMT 130 - Dynamics of Global Commerce

Exploration of the challenges of business operations in the global market place. Topics discussed include the business, economic, social, and political aspects of the global market place. This may include, but not be limited to, topics such as e-commerce, entrepreneurship, sustainability and business ethics.

Credits: 3

MGMT 139 - University Seminar

University Seminar serves as the entry point to the Slippery Rock University general education program. With its small seminar setting and strong faculty-student interaction, the course promotes intellectual inquiry, critical and creative thinking, and academic excellence. Through varied content, the course introduces students to academic discourse and information literacy while exploring topics such as diversity and inclusion and global awareness. This course will set students along the path to becoming engaged with issues and scholarship important to a 21st century education while they learn about themselves and their place in the world.

Credits: 3

MGMT 190 - Experimental

A unique and specifically focused course within the general purview of a department which intends to offer it on a "one time only" basis and not as a permanent part of the department's curriculum.

MGMT 195 - Workshop

A workshop is a program which is usually of short duration, narrow in scope, often non-traditional in content and format, and on a timely topic.

MGMT 198 - Selected Topic

A **Selected Topics** course is a normal, departmental offering which is directly related to the discipline, but because of its specialized nature, may not be able to be offered on a yearly basis by the department.

MGMT 219 - Business Statistics

Probability and statistics in a business environment, encompassing descriptive statistics, probability theory, hypothesis testing, linear regression and correlation. Cross-listed as ECON 219.

Prerequisites & Notes

Algebraic proficiency and microcomputer proficiency.

Credits: 3

MGMT 290 - Experimental

A unique and specifically focused course within the general purview of a department which intends to offer it on a "one time only "basis and not as a permanent part of the department's curriculum.

MGMT 295 - Workshop

A workshop is a program which is usually of short duration, narrow in scope, often non-traditional in content and format, and on a timely topic.

MGMT 298 - Selected Topic

A **Selected Topics** course is a normal, departmental offering which is directly related to the discipline, but because of its specialized nature, may not be able to be offered on a yearly basis by the department.

MGMT 319 - Business Analytics II

This course introduces various methods on how to analyze large sets of business data in order to uncover potential business opportunities. Students will learn both predictive analytics and prescriptive analytics. The predictive analytics include trend analysis, forecasting techniques, data mining, and spreadsheet modeling. Prescriptive analytics covers linear optimization and decision analysis. Business software such as productivity software, data visualization, and business intelligence software will be heavily used as a main focus of learning.

Prerequisites & Notes

Prerequisites: (ECON 219 or MGMT 219 or STAT 152) and (MATH 113 or MATH 115 or MATH 118 or MATH 122 or MATH 123 or MATH125 or MATH 131 or MATH 210 or MATH 225)

Credits: 3

MGMT 320 - Operations Management I

Operations strategy and competition, production systems and processes, decision analysis and graphical linear programming, quality management and process control, facility location and layout, work methods and measurement, inventory management and project evaluation review technique (PERT).

Prerequisites & Notes

MGMT/ECON/BUSA 219 OR MATH 152 or STAT 152

Credits: 3

MGMT 341 - Organizational Leadership

This course will include a combination of leadership theory, practice, and application to contemporary organizations. Major challenges will be discussed including the strengths and weaknesses of these firms and ways in which organizational effectiveness can be improved. We will discuss the inextricable relationship between leadership and diversity and the essential nature of a diverse workforce for maximum success through the empowerment of people. Concepts such as strategic thinking, self-leadership, change and globalization are included.

Prerequisites & Notes

MGMT351 and junior standing

Credits: 3

MGMT 351 - Organizational Behavior

Study of the satisfaction, motivation, learning, problem solving and growth of persons in organizational settings. Conceptual learning is combined with self-analysis in each area.

Credits: 3

MGMT 352 - Operations Management II

Management science analysis and optimization techniques including linear programming, transportation algorithm, waiting line models, simulation processes, network models, materials requirement planning, and forecasting methods applied to a variety of business operations situations.

Prerequisites & Notes

MGMT 320 and 351

Credits: 3

MGMT 353 - Development of Management Thought

Contemporary management as the result of an evolutionary process involving the thoughts and writings of many famous management theoreticians and practitioners.

Prerequisites & Notes

MGMT 351

Credits: 3

MGMT 354 - Human Resources Management

A survey course emphasizing aspects of the basic processes of HRM including principles, policies, tools and techniques utilized in the human resource function in any organization. Managing human capital encompasses: recruiting, hiring, training, development, compensation and performance management. Managing individuals and groups that include a diversity of backgrounds throughout each function, are core human resource activities and are incorporated in this class through a variety of techniques.

Prerequisites & Notes

MGMT 351 or HCAM 360

Credits: 3

MGMT 357 - International Operations Management

Issues critical to globalization of manufacturing operations including global planning and organization, comparison of operations, international operations strategy, managerial issues in global operations.

Prerequisites & Notes

MGMT 320 and 351

Credits: 3

MGMT 360 - Total Quality Management

Managerial and technological issues that are necessary to understand and implement quality assurance programs including human resource development, strategic planning, management information systems, cost effectiveness, implementation procedures and statistical quality control.

Prerequisites & Notes

(MGMT/ECON/BUSA 219 or MATH 152) and MGMT351 and MRKT330

Credits: 3

MGMT 364 - Recruitment and Selection

Components of an effective selection program including job analysis, employment testing, and selection interviews with emphasis on the legal issues and relevant federal regulations.

Prerequisites & Notes

MGMT 354

Credits: 3

MGMT 370 - Sustainable Entrepreneurship and Innovation

This integrative course introduces students to issues related to sustainable new venture creation. It includes topics such as the importance of innovation and creativity in opportunity recognition and the design of sustainable business models, industry/market analysis, resource acquisition and disposition, assessing a venture's financial strength, and ethical legal issues. Students will learn the entrepreneurial process while acknowledging multiple stakeholders and addressing social, economic and environmental concerns.

Prerequisites & Notes

FIN 320; MGMT 351; MRKT 330 or permission of instructor

Credits: 3

MGMT 390 - Experimental

A unique and specifically focused course within the general purview of a department which intends to offer it on a "one time only "basis and not as a permanent part of the department's curriculum.

MGMT 395 - Workshop

A workshop is a program which is usually of short duration, narrow in scope, often non-traditional in content and format, and on a timely topic.

MGMT 398 - Selected Topic

A **Selected Topics** course is a normal, departmental offering which is directly related to the discipline, but because of its specialized nature, may not be able to be offered on a yearly basis by the department.

MGMT 449 - Sustainable Management Internship

Supervised placement, work, and research in selected public and private organizations.

Prerequisites & Notes

Application and permission of instructor.

Credits: 3

MGMT 450 - Internship

Supervised placement, work, and research in selected public and private organizations.

Prerequisites & Notes

Application and permission of the instructor

Credits: 1 to 12

MGMT 452 - Management-Labor Relations

Modern industrial relations from the perspective of both management and labor, including the historical development of large-scale business and organized labor.

Prerequisites & Notes

MGMT 351

Credits: 3

MGMT 453 - Collective Bargaining

The major issues in the negotiation process: bargaining, public policy implications, impasse resolution, strikes, and legislation affecting collective bargaining.

Prerequisites & Notes

MGMT 351

Credits: 3

MGMT 454 - Management Seminar

Contemporary methods and theories of management are discussed in terms of current organizational practice.

Prerequisites & Notes

MGMT 320, 354 and senior standing

Credits: 3

MGMT 455 - Compensation Management

Rationale, composition and administration of employee reward systems considering both the internal organizational factors and external environmental factors. Contemporary issues such as comparable worth, CEO salaries, and the rising cost of benefits are included.

Prerequisites & Notes

MGMT 354

Credits: 3

MGMT 456 - Management and Society

This course will engage students in exploring the social, ethical, environmental, economic, and political/legal restraints on organizational decision-making that managers face today. Students will develop critical thinking, communication and managerial skills necessary to be effective in a business world, where multiple stakeholder interests must be addressed.

Prerequisites & Notes

MGMT 351

Credits: 3

MGMT 457 - International Management

Examination of environments, resources, strategies and models of managerial functions in international organizations.

Prerequisites & Notes

MGMT 351

Credits: 3

MGMT 458 - Business Capstone

Business Capstone uses a web-based business simulation as a learning tool to enhance student understanding of the interaction and influence of an organization's competitive strategy and policy on the functional area of business. Course material includes the sources of competitive advantage, cross-functional integration and management's commitment to ethics and diversity.

Prerequisites & Notes

ACCT209, ACCT210, ECON201, ECON202, FIN320, (ECON219 or BUSA219), MGMT320, MGMT351, MRKT330, (MATH123 or MATH125 or MATH225).

Concurrent courses (which may be taken prior to or at the same time as BUSA458): ACCT340, (FIN303 or BUSA303), (CPSC365 or MIS365)

Credits: 3

MGMT 459 - Sustainable Business Consulting

In this course student teams engage in field-based consulting to analyze actual problem situations involving sustainability for regional businesses.

Credits: 3

MGMT 460 - Training and Development

Training and development as a human resource management function supporting organizational strategic planning including: training needs analysis, training program objectives, training methods, management and organization development methods, program evaluation and cost-benefit analysis, and training budgeting. Current trends in training and development will be covered including computer based training, competency based training and cross cultural training.

Prerequisites & Notes

MGMT 354

Credits: 3

MGMT 465 - Management of Information Technology

Management and specific technical concepts and techniques applied to the function of providing information technology services to the organization.

Prerequisites & Notes

MGMT 351, three credits of CPSC

Credits: 3

MGMT 490 - Independent Study

In-depth reading and/or research with the guidance of a faculty member in an area selected by the student.

Prerequisites: 12 credits in major courses, application, and permission of the instructor, departmental chairperson, and dean of the college where the study will be conducted.

Independent Study courses give students the opportunity to pursue research and/or studies that are not part of the university's traditional course offerings. Students work one on one or in small groups with faculty guidance and are typically required to submit a final paper or project as determined by the supervising professor.

Credits: 1 to 3

MGMT 495 - Workshop

A workshop is a program which is usually of short duration, narrow in scope, often non-traditional in content and format, and on a timely topic.

MGMT 498 - Selected Topic

A **Selected Topics** course is a normal, departmental offering which is directly related to the discipline, but because of its specialized nature, may not be able to be offered on a yearly basis by the department.

MGMT 590 - Experimental

A unique and specifically focused course within the general purview of a department which intends to offer it on a "one time only" basis and not as a permanent part of the department's curriculum.

Credits: 3

MGMT 595 - Workshop

A workshop is a program which is usually of short duration, narrow in scope, often non-traditional in content and format, and on a timely topic.

Credits: 3

MGMT 598 - Selected Topic

A **Selected Topics** course is a normal, departmental offering which is directly related to the discipline, but because of its specialized nature, may not be able to be offered on a yearly basis by the department.

Credits: 3

MIS 139 - University Seminar

University Seminar serves as the entry point to the Slippery Rock University general education program. With its small seminar setting and strong faculty-student interaction, the course promotes intellectual inquiry, critical and creative thinking, and academic excellence. Through varied content, the course introduces students to academic discourse and information literacy while exploring topics such as diversity and inclusion and global awareness. This course will set students along the path to becoming engaged with issues and scholarship important to a 21st century education while they learn about themselves and their place in the world.

Credits: 3

MIS 210 - Productivity Software

An in-depth, practical study of existing productivity software packages that focuses primarily on decision-support systems for microcomputers. Projects will involve the use of intermediate and advanced features of various software packages, as well as the use of several packages in finding computer-based solutions to information storage and retrieval problems.

Prerequisites & Notes

CPSC 100; or
CPSC 110; or

CPSC 130

Credits: 3

MIS 211 - Information Systems Applications Development

The purpose of this course is to introduce the students to the fundamental concepts and models of application development so that they can understand the key processes related to building functioning applications and appreciate the complexity of application development. Students will learn the basic concepts of program design, data structures, programming, problem solving, programming logic and fundamental design techniques for event-drive programs. Program development will incorporate the program development life cycle: gathering requirements, designing a solution, implementing a solution in programming language and testing the completed application.

Prerequisites & Notes

None

Credits: 3

MIS 265 - Management Information Systems

Managerial and technological issues that are necessary to understand, establish, manage and use information systems in all functional areas of organizations.

Prerequisites & Notes

Prerequisites: MIS 210 or CPSC 210

Credits: 3

MIS 300 - Challenges of Computer Technology

An in-depth study of the critical issues related to the computerization of society. Ethical, legal, and moral issues raised by the evolution of computer technology will be discussed.

Credits: 3

MIS 301 - Practical Computer Security

A practical introduction to the threats present to the online, electronic community, and how to protect yourself and your organization from them. We will explore the connectivity structure of the Internet, along with the security and criminal threats to members of the online community. The legal, ethical and technical issues related to threats such as viruses, worms, and identity theft will be covered.

Prerequisites & Notes

CPSC 100; or
CPSC 110; or

CPSC 130

Credits: 3

MIS 310 - Business Data Analysis and Visualization

This course covers how data analysts can process data sets from a variety of sources to create information that guides leaders in crafting strategy and tactics which allow an organization to survive and thrive in a turbulent environment. Students will review how business data analysis has been successfully used in the past and learn appropriate processes and a variety of techniques to accomplish effective analyses. Emphasis is on analyzing data, visualizing and interpreting the results of those analyses and translating results into clear and simple insights to aid managerial decision making.

Prerequisites & Notes

Prerequisites: MIS 210 and ECON/MGMT 219 or STAT 152 with a grade of C or above.

Credits: 3

MIS 323 - Database Systems

Database Systems is a study of relational database concepts as applied to comprehensive information systems. These concepts include data design; modeling; normalization; the use of Structured Query Language (SQL) to define, manipulate and test the database; programmatic access to a database; and practical issues faced by database developers.

Prerequisites & Notes

CPSC 130; or

CPSC 146; or

CPSC 210; or

MIS 210

Credits: 3

MIS 333 - Introduction to Computer Forensics

This is a fundamental course which covers computer forensics. This class covers methods and tools for gaining forensic information from computer systems and networks. It includes case studies of cyber crimes as well as the application and management of cyber forensics. The course introduces students to forensics tools using hands-on experience and the Internet.

Prerequisites & Notes

CPSC 100; or

CPSC 110; or

CPSC 130; or

CPSC 210; or

MIS 210; or

PE 202

Credits: 3

MIS 353 - Business Data Communications & Tech

This course provides an introduction and overview of computer networks and data communications. provides an understanding of the underlying concepts of computer networking, email, instant messaging (e.g. texting, multimedia messaging). Introduces several software packages used in business data communications. Emphasis is placed on terminology, techniques and issues in business data communications.

Prerequisites & Notes

CPSC 210; or
MIS 210

Credits: 3

MIS 401 - Information Systems Security

This course covers key bodies of knowledge and specializations in security and privacy associated with information systems. The course explores the management of various technologies in emerging areas of information assurance including computer and network security, digital forensics, cryptography and biometrics. course concepts include information Assurance, Information Security Governance and Risk Management, Operations Security, Cryptography, Access Control, Physical Security, Telecommunications Security, Business Continuity and Disaster Recovery Planning, Legal and Ethical Issues.

Prerequisites & Notes

MIS 301 or CPSC 301

Credits: 3

MIS 403 - Introduction to Health Care Info Systems

This course will give an introduction to computer-based information systems as they are applied to the health care industry. Topics will include characteristics of health care data, design and life cycle of HCIS, the information technology supporting HCIS and management issues.

Prerequisites & Notes

CPSC 210; or
MIS 210

Credits: 3

MIS 413 - Systems Analysis

A course in computer-based information systems. Course content includes: foundations of information science, techniques for system development, information architectures, and resource allocations. Case studies are discussed and utilized as class projects.

Prerequisites & Notes

CPSC 323; or
MIS 323

Credits: 3

MIS 443 - Project Management

An introduction to project management in the information systems, or IT development, area. Provides an understanding of the purpose, methods and benefits of process management by exposing the student to the concepts, practices, processes, tools and techniques used in project management.

Prerequisites & Notes

Credits: 3

MIS 450 - Internship

Professional work experience performed as an intern at selected agencies supervised both by the agency and by the Computer Science Department.

Credits: 1-12

MIS 453 - Fundamentals of Enterprise Architecture

This course explores the design, selection, implementation and management of enterprise IT solutions. The focus is on applications and their fit with the hosting organization.

Prerequisites & Notes

Prerequisites: MIS 323 and MIS 413

Credits: 3

MIS 490 - Independent Study

Supervised study in a special interest area. Prerequisites: Two computer science courses selected from 370 or above, permission of the instructor, departmental chairperson, and dean of the college where the study will be conducted.

Independent Study courses give students the opportunity to pursue research and/or studies that are not part of the university's traditional course offerings. Students work one on one or in small groups with faculty guidance and are typically required to submit a final paper or project as determined by the supervising professor.

Prerequisites & Notes

Prerequisites: Two computer science courses selected from 370 or above, permission of the instructor, departmental chairperson, and dean of the college where the study will be conducted.

Credits: 1 to 3

MODL 105 - Introduction to Asian Civilizations

This course is an introductory, interdisciplinary course designed to give students a broad understanding of the geographic, historical and religious, cultural, artistic, social, political and economic forces that shape Asia. No prior knowledge is expected. This is a Liberal Studies, Global Community, Non-US course.

Credits: 3

MODL 139 - University Seminar

University Seminar serves as the entry point to the Slippery Rock University general education program. With its small seminar setting and strong faculty-student interaction, the course promotes intellectual inquiry, critical and creative thinking, and academic excellence. Through varied content, the course introduces students to academic discourse and information literacy while exploring topics such as diversity and inclusion and global awareness. This course will set students along the path to becoming engaged with issues and scholarship important to a 21st century education while they learn about themselves and their place in the world.

Credits: 3

MODL 151 - Self-Instructional Languages

Self-Instruction in basic language is open to serious students with previous language background. The course is designed to develop the speaking, listening comprehension of the student on a basic level. Course may be repeated in each language up to a maximum of three credits. Not applicable for modern language requirement or liberal studies. Students may choose from any world languages not available in the regular offerings.

Credits: 3

MODL 190 - Experimental

A unique and specifically focused course within the general purview of a department which intends to offer it on a "one time only" basis and not as a permanent part of the department's curriculum.

Credits: 3

MODL 195 - Workshop

A workshop is a program which is usually of short duration, narrow in scope, often non-traditional in content and format, and on a timely topic.

Credits: 3

MODL 198 - Selected Topic

A **Selected Topics** course is a normal, departmental offering which is directly related to the discipline, but because of its specialized nature, may not be able to be offered on a yearly basis by the department.

Credits: 3

MODL 290 - Experimental

A unique and specifically focused course within the general purview of a department which intends to offer it on a “one time only “basis and not as a permanent part of the department’s curriculum.

Credits: 3

MODL 295 - Workshop

A workshop is a program which is usually of short duration, narrow in scope, often non-traditional in content and format, and on a timely topic.

Credits: 3

MODL 298 - Selected Topic

A **Selected Topics** course is a normal, departmental offering which is directly related to the discipline, but because of its specialized nature, may not be able to be offered on a yearly basis by the department.

Credits: 3

MODL 390 - Experimental

A unique and specifically focused course within the general purview of a department which intends to offer it on a “one time only “basis and not as a permanent part of the department’s curriculum.

Credits: 3

MODL 395 - Workshop

A workshop is a program which is usually of short duration, narrow in scope, often non-traditional in content and format, and on a timely topic.

Credits: 3

MODL 398 - Selected Topic

A **Selected Topics** course is a normal, departmental offering which is directly related to the discipline, but because of its specialized nature, may not be able to be offered on a yearly basis by the department.

Credits: 3

MODL 490 - Independent Study

Independent Study courses give students the opportunity to pursue research and/or studies that are not part of the university's traditional course offerings. Students work one on one or in small groups with faculty guidance and are typically required to submit a final paper or project as determined by the supervising professor.

Credits: 3

MODL 495 - Workshop

A workshop is a program which is usually of short duration, narrow in scope, often non-traditional in content and format, and on a timely topic.

Credits: 3

MODL 498 - Selected Topic

A **Selected Topics** course is a normal, departmental offering which is directly related to the discipline, but because of its specialized nature, may not be able to be offered on a yearly basis by the department.

Credits: 3

MRKT 139 - University Seminar

University Seminar serves as the entry point to the Slippery Rock University general education program. With its small seminar setting and strong faculty-student interaction, the course promotes intellectual inquiry, critical and creative thinking, and academic excellence. Through varied content, the course introduces students to academic discourse and information literacy while exploring topics such as diversity and inclusion and global awareness. This course will set students along the path to becoming engaged with issues and scholarship important to a 21st century education while they learn about themselves and their place in the world.

Credits: 3

MRKT 190 - Experimental

A unique and specifically focused course within the general purview of a department which intends to offer it on a "one time only" basis and not as a permanent part of the department's curriculum.

MRKT 195 - Workshop

A workshop is a program which is usually of short duration, narrow in scope, often non-traditional in content and format, and on a timely topic.

MRKT 198 - Selected Topic

A **Selected Topics** course is a normal, departmental offering which is directly related to the discipline, but because of its specialized nature, may not be able to be offered on a yearly basis by the department.

MRKT 290 - Experimental

A unique and specifically focused course within the general purview of a department which intends to offer it on a "one time only" basis and not as a permanent part of the department's curriculum.

MRKT 295 - Workshop

A workshop is a program which is usually of short duration, narrow in scope, often non-traditional in content and format, and on a timely topic.

MRKT 298 - Selected Topic

A **Selected Topics** course is a normal, departmental offering which is directly related to the discipline, but because of its specialized nature, may not be able to be offered on a yearly basis by the department.

MRKT 303 - Issues in Global Business

This course will focus on fundamental issues in the modern globalization of business. The topics covered will include the cultural environments in which business work, politics and law in global business, economic integration, global trade and investment, global finance, global operations and managing global businesses. A special emphasis will be placed on the challenges and opportunities presented to global businesses by the social, political and economic diversity encountered in the global marketplace.

Credits: 3

MRKT 330 - Principles of Marketing

An analytical overview of market decision-making including product, pricing, place, and promotional strategies considering the heterogeneity and diversity of customers and markets with respect to their demographic, geographic, psychographic, cultural, and behavioral characteristics.

Credits: 3

MRKT 331 - Distribution Management

Principles, methods and problems relating to wholesaling, retailing and physical distribution management.

Prerequisites & Notes

MRKT 330

Credits: 3

MRKT 332 - Business Marketing

A management perspective of the internal and external environments affecting the demand for industrial goods; marketing intelligence and control; and marketing strategy for product, service, channel, price, and promotional components.

Prerequisites & Notes

MRKT 330

Credits: 3

MRKT 333 - Consumer Behavior

The buying process with emphasis on economic, social, cultural and psychological determinants of consumer choice.

Prerequisites & Notes

MRKT 330

Credits: 3

MRKT 334 - Advertising Management

Management of advertising, including background, roles, planning, media strategy, message, testing, research, evaluation, and administration of advertising.

Prerequisites & Notes

MRKT 330

Credits: 3

MRKT 335 - Retail Management

Store location and layout, retail personnel management, merchandising policies and control, and marketing strategy.

Prerequisites & Notes

MRKT 330 or permission of the instructor

Credits: 3

MRKT 336 - Professional Selling

Provides foundations of sales processes and management to prepare students for careers in selling or sales management.

Prerequisites & Notes

MRKT 330 or permission of the instructor

Credits: 3

MRKT 338 - E-Commerce

The role, structure, organization, and use of the Internet as a channel of distribution to conduct electronic commerce.

Prerequisites & Notes

MRKT 330

Credits: 3

MRKT 390 - Experimental

A unique and specifically focused course within the general purview of a department which intends to offer it on a "one time only "basis and not as a permanent part of the department's curriculum.

MRKT 395 - Workshop

A workshop is a program which is usually of short duration, narrow in scope, often non-traditional in content and format, and on a timely topic.

MRKT 398 - Selected Topic

A **Selected Topics** course is a normal, departmental offering which is directly related to the discipline, but because of its specialized nature, may not be able to be offered on a yearly basis by the department.

MRKT 430 - Marketing Research

Research methodology as a managerial tool used in problem solving and decision making in marketing.

Prerequisites & Notes

ECON 219 or MGMT 219 or BUSA 219, MRKT 330 and senior standing

Credits: 3

MRKT 431 - Marketing Seminar

Advanced topics in marketing with emphasis on the analysis and solution of marketing problems.

Prerequisites & Notes

MGMT 320, MRKT 332, 333 and senior standing

Credits: 3

MRKT 437 - International Marketing

The marketing issues of firms engaged in international business with emphasis on strategies for successful foreign market penetration.

Prerequisites & Notes

MRKT 330

Credits: 3

MRKT 450 - Internship

Supervised placement, work, and research in selected public and private organizations.

Prerequisites & Notes

Application and permission of the instructor

Credits: 3

MRKT 490 - Independent Study

In-depth reading and/or research with the guidance of a faculty member in an area selected by the student. Independent Study courses give students the opportunity to pursue research and/or studies that are not part of the university's traditional course offerings. Students work one on one or in small groups with faculty guidance and are typically required to submit a final paper or project as determined by the supervising professor.

Prerequisites & Notes

12 credits of major courses, application, permission of the instructor, departmental chairperson and dean of the college where the study will be conducted

Credits: 1 to 3

MRKT 495 - Workshop

A workshop is a program which is usually of short duration, narrow in scope, often non-traditional in content and format, and on a timely topic.

MRKT 498 - Selected Topic

A **Selected Topics** course is a normal, departmental offering which is directly related to the discipline, but because of its specialized nature, may not be able to be offered on a yearly basis by the department.

MRKT 590 - Experimental

A unique and specifically focused course within the general purview of a department which intends to offer it on a "one time only" basis and not as a permanent part of the department's curriculum.

Credits: 3

MRKT 595 - Workshop

A workshop is a program which is usually of short duration, narrow in scope, often non-traditional in content and format, and on a timely topic.

Credits: 3

MRKT 598 - Workshop

A workshop is a program which is usually of short duration, narrow in scope, often non-traditional in content and format, and on a timely topic.

Credits: 3

MS 100 - The American Military Experience

Establishes a framework of reference regarding military service, an understanding of the profession of arms and its impact on and place in American society. The course begins the Army's leadership development process. Includes a lab. ++

Prerequisites & Notes

None. Fills a Liberal Studies requirement as a Human Institutions & Personal Relationships Enrichment Course.

Credits: 3

MS 102 - Principles of Leadership

This course continues the student's introduction to the military organization and begins to teach leadership techniques and principles using military situations as a point of reference. Various academic studies of civilian-based leadership theories and styles are examined and compared to military theories and styles. Includes a lab. ++

Credits: 3

MS 139 - University Seminar

University Seminar serves as the entry point to the Slippery Rock University general education program. With its small seminar setting and strong faculty-student interaction, the course promotes intellectual inquiry, critical and creative thinking, and academic excellence. Through varied content, the course introduces students to academic discourse and information literacy while exploring topics such as diversity and inclusion and global awareness. This course will set students along the path to becoming engaged with issues and scholarship important to a 21st century education while they learn about themselves and their place in the world.

Credits: 3

MS 190 - Experimental

A unique and specifically focused course within the general purview of a department which intends to offer it on a "one time only" basis and not as a permanent part of the department's curriculum.

MS 195 - Workshop

A workshop is a program which is usually of short duration, narrow in scope, often non-traditional in content and format, and on a timely topic.

MS 198 - Selected Topic

A **Selected Topics** course is a normal, departmental offering which is directly related to the discipline, but because of its specialized nature, may not be able to be offered on a yearly basis by the department.

MS 201 - Basic Military Skills

Begins to teach basic military skills such as map reading, land navigation using a map and compass, first aid, weapons marksmanship, drill and small unit tactics. Includes a lab. ++

Credits: 3

MS 202 - Intermediate Military Skills

Continues instruction in map reading, land navigation using a map and compass, first aid, weapons marksmanship, drill and small unit tactics. Begins to integrate all skills into leading small units in tactical situations. Includes a lab. ++

Credits: 3

MS 209 - Evolution of Modern Military Art

A survey of the development of all branches of the American military spanning the colonial period to present day, this course includes a brief introduction to the development of the western way of war from pre-Hellenistic conflict through the Middle Ages in Europe. Technological innovation, evolution of tactical through strategic levels of warfare, and the symbiotic relationship between military development, national policy, and societal expectations will be examined.

Credits: 3

MS 250 - ROTC Basic Leadership Practicum

A five week experience of training and evaluation conducted in a tactical framework at Fort Knox, Kentucky. Students learn basic military skills which enable them to take advanced military science courses on campus.

Prerequisites & Notes

Permission of the department chair required to take this course

Credits: 3

MS 280 - Leadership Seminar

This course involves individualized instruction, research and presentation on research in areas required to fill in a students knowledge base to be able to move into the ROTC advanced course. This course may be taken only once.

Prerequisites & Notes

3.0 GPA in military science studies, permission of the instructor, department chairperson and dean of the college

Credits: 3

MS 290 - Experimental

A unique and specifically focused course within the general purview of a department which intends to offer it on a “one time only” basis and not as a permanent part of the department’s curriculum.

MS 295 - Workshop

A workshop is a program which is usually of short duration, narrow in scope, often non-traditional in content and format, and on a timely topic.

MS 298 - Selected Topic

A **Selected Topics** course is a normal, departmental offering which is directly related to the discipline, but because of its specialized nature, may not be able to be offered on a yearly basis by the department.

MS 301 - Fundamentals of Tactical Operations

Focuses on tactics at the squad level. Students learn the troop leading procedures and how to give both oral and written operations orders. Students continue to enhance their skills at land navigation and rifle marksmanship. Physical fitness conditioning is a mandatory part of the laboratory. Includes a lab. ++

Prerequisites & Notes

Permission of the department chair required to take this course

Credits: 4

MS 302 - Advanced Military Skills

Continues development of intermediate level cadet leader skills in preparation for attendance at the Leadership Development and Assessment Course at Ft. Lewis, Washington. The course is supplementary in scope and includes leadership, written and oral communications, operations and tactics, land navigation, weapons, and radio and wire communications subjects. A laboratory experience is required. ++

Prerequisites & Notes

Permission of the department chair required to take this course

Credits: 4

MS 350 - ROTC Advanced Leadership Practicum

A five week experience of training and evaluation conducted in a tactical framework at Fort Lewis, Washington. Cadets demonstrate and learn advanced military skills. Cadets also demonstrate their leadership skills in a variety of leadership positions in tactical and non-tactical environments.

Credits: 3

MS 390 - Experimental

A unique and specifically focused course within the general purview of a department which intends to offer it on a "one time only" basis and not as a permanent part of the department's curriculum.

MS 395 - Workshop

A workshop is a program which is usually of short duration, narrow in scope, often non-traditional in content and format, and on a timely topic.

MS 398 - Selected Topic

A **Selected Topics** course is a normal, departmental offering which is directly related to the discipline, but because of its specialized nature, may not be able to be offered on a yearly basis by the department.

MS 401 - Leadership Dimensions and Concepts

This course begins the transition from cadet to officer. Focus is on organization of the Army, command and staff functions, officer and noncommissioned officer evaluation system, military law and development of training. Students participate in a staff ride to a significant military battlefield. Includes a lab. ++

Prerequisites & Notes

Permission of the department chair required to take this course

Credits: 4

MS 402 - Officership and the Profession of Arms

This course continues the transition from cadet to officer. Students begin a critical analysis of the role of the officer and the noncommissioned officer, and their interaction, at the platoon, company and battalion level. Students are introduced to joint operations and conduct some critical analysis of national military policy. Includes a lab. ++

Prerequisites & Notes

Permission of the department chair required to take this course

Credits: 4

MS 450 - The Cadet Troop Leadership Internship

A three-week experience as a leader in a U.S. Army unit, under the close supervision of a U.S. Army lieutenant or captain. It gives the student the opportunity to lead real soldiers in a real U.S. Army unit. The intern will actually supervise the planning and execution of the unit's scheduled training.

Prerequisites & Notes

MS 301, 302, 350 and professor of military science permission

Credits: 3

MS 490 - Independent Study

In-depth reading and research in an area of particular interest to the student with the guidance of an individual faculty member. This course may be taken only once.

Independent Study courses give students the opportunity to pursue research and/or studies that are not part of the university's traditional course offerings. Students work one on one or in small groups with faculty guidance and are typically required to submit a final paper or project as determined by the supervising professor.

Prerequisites & Notes

3.000 GPA in military science studies, permission of the instructor, department chairperson and dean of the college where the study will be conducted

Credits: 1 to 3

MS 495 - Workshop

A workshop is a program which is usually of short duration, narrow in scope, often non-traditional in content and format, and on a timely topic.

MS 498 - Selected Topic

A **Selected Topics** course is a normal, departmental offering which is directly related to the discipline, but because of its specialized nature, may not be able to be offered on a yearly basis by the department.

MUSI 029 - Clinical Integration Lab

This is a laboratory experience associated with Clinical Integration MUSI 229.

Prerequisites & Notes

None.

Credits: 0

MUSI 101 - Exploring Music

A survey course designed to develop the student perception and understanding of changing musical styles and practices in Western culture.

Credits: 3

MUSI 102 - Exploring World Music

A course designed to survey non-Western musical traditions and practices. Emphasis is given to the music of India, Russia, Japan, Africa, the Middle East, and the American Indian.

Credits: 3

MUSI 104 - Exploring American Music

A survey course designed to develop student knowledge and understanding of music composed and performed in the United States between 1620 and the present.

Credits: 3

MUSI 105 - Exploring Jazz

The stylistic development of jazz and its relevance to society.

Credits: 3

MUSI 106 - Introduction to Jazz Performance

This course will introduce the high school music student to jazz pedagogy at the university level. Emphasis will be placed on performing skills, theory, improvisation, ear training and music technology. Course may be repeated up to four credits.

Prerequisites & Notes

Proficiency on a musical instrument or voice

Credits: 3

MUSI 107 - Fundamentals of Music

Understanding and using music notation and terminology.

Credits: 3

MUSI 108 - Flute Camp

The SRU "Flute Camp" will give high school flutists an opportunity to be on the SRU campus during the Summer Arts Academy for an intensive 2 week program involving all aspects of flute performance. Follow up involvement of the high school students during the fall semester will consist of their attendance at flute related university events and critical writing about the concerts/rehearsals/master classes they observed during the fall component.

Credits: 1

MUSI 109 - Jazz Combo

Students will meet weekly with the appropriate faculty member to work on jazz performance in the small group (combo) setting. Study of phrasing, articulation, jazz theory, improvisation, and other jazz performance practices will be addressed. Students will be auditioned at the beginning of the semester for placement. At least one public performance will be given per semester. One hour of rehearsal time per week. One credit for every semester of satisfactory participation is granted for this music performance group. The course may be repeated up to 10 times. Additional repeats are possible with a waiver from the department chairperson. The ensemble is also available without credit.

Credits: 1

MUSI 111 - Introduction to Music Education

This course is designed to introduce the student to the field of music education. This course will be an introduction to planning and preparation for teaching music, including creating an effective classroom environment for teaching music, instructional delivery in music, historical background relevant to music education, copyright laws in the music classroom, instructional planning, diversity, and advocacy. Students will complete their Field Experience Level 1: Observation hours as a requirement of this course.

Credits: 2

MUSI 113 - Saxophone Quartet

Students will meet weekly with the appropriate faculty member to work on literature selected for their performance ability level. Study of phrasing, articulation, balance, blend, intonation, and other performance practices will be addressed. Students will be auditioned at the beginning of the semester for placement. At least one public performance will be given per semester. Two hours per week rehearsal time. One to two credits for every semester of satisfactory participation is granted for this music performance group. The course may be repeated up to 10 times. Additional repeats are possible with a waiver from the department chairperson. The ensemble is also available without credit.

Credits: 1-2

MUSI 114 - Symphonic Wind Ensemble

Symphonic Wind Ensemble: A chamber ensemble composed of select musicians chosen by audition, performing contemporary literature as well as transcriptions for winds and percussion. Four and a half hours of week rehearsal time. One to four credits for every semester of satisfactory participation is granted for this music performance group. The course may be repeated up to 10 times. Additional repeats are possible with a waiver from the department chairperson. The ensemble is also available without credit.

Prerequisites & Notes

Audition with the director of the Symphonic Wind Ensemble and the instrumental faculty

Credits: 1-4

MUSI 115 - Concert Choir

Auditioned mixed chorus of 50-70 singers that studies and performs a variety of music from Renaissance to 21st century, classical to contemporary, a cappella and music accompanied by piano, chamber groups, and symphonic ensembles. Three hours per week rehearsal time. Multiple concerts are presented both on and off campus and on periodic tours. One to three credits for every semester of satisfactory participation is granted for this music performance group. The course may be repeated up to 10 times. Additional repeats are possible with a waiver from the department chairperson. Entrance is by successful audition, held the first week of classes every semester; contact the instructor for information. The ensemble is also available without credit.

Credits: 1-3

MUSI 116 - Women's Choir

An ensemble of 30-40 women who perform choral music especially composed for female voices. This ensemble performs traditional and modern repertoire, with and without accompaniment. Concerts are presented on campus and on tours. Two and one-half hours per week rehearsal time. Multiple concerts are presented both on and off campus and

on periodic tours. One to two credits for every semester of satisfactory participation is granted for this music performance group. The course may be repeated up to 10 times. Additional repeats are possible with a waiver from the department chairperson. No audition is required. The ensemble is also available without credit.

Credits: 1-2

MUSI 117 - Chamber Singers

An elite chamber choir of 16-24 outstanding singers who perform challenging repertoire with a greater emphasis on a cappella music. Members of this group are expected to display initiative to prepare music to the highest possible level of their ability. Two and one-half hours per week rehearsal time. One or two credits for every semester of satisfactory participation is granted for this music performance group. The course may be repeated up to 10 times. Additional repeats are possible with a waiver from the department chairperson. Entrance is by successful audition, held the first week of classes every semester; contact the instructor for information. The ensemble is also available without credit.

Prerequisites & Notes

Co-requisite: MUSI 115

Credits: 1-2

MUSI 118 - Marching Pride

The Marching Pride performs during the half time at football games, both home and away, and for other special events. Much of its music is specially arranged. Open to all students. Six hours a week rehearsal during the football season. One to six credits for every semester of satisfactory participation is granted for this music performance group. The course may be repeated up to 6 times. Additional repeats are possible with a waiver from the department chairperson. The ensemble is also available without credit.

Credits: 1-6

MUSI 119 - Concert Band

The Concert Band members are carefully selected to provide a balanced instrumentation of the best players. Music written for concert band is the main repertoire. Concerts on campus. Four hours a week rehearsal time. One to four credits for every semester of satisfactory participation is granted for this music performance group. The course may be repeated up to 5 times. Additional repeats are possible with a waiver from the department chairperson. The ensemble is also available without credit.

Credits: 1-4

MUSI 120 - Jazz Ensemble

The SRU Jazz Ensemble performs jazz literature from all eras of jazz history including big band, bop, hard bop, fusion and contemporary. This ensemble often performs with guest artists of national and international stature, both on and off campus. Membership in this ensemble requires an audition. Three hours and forty-five minutes of rehearsal per week. One to three credits for every semester of satisfactory participation is granted for this music performance group. The course may be repeated up to 10 times. Additional repeats are possible with a waiver from the department chairperson. The ensemble is also available without credit.

Credits: 1-3

MUSI 121 - Orchestra

The orchestra is a string ensemble, with winds and percussion added when needed, which performs music from the orchestral repertoire. Admission by audition. Four hours a week rehearsal time. One to four credits for every semester of satisfactory participation is granted for this music performance group. The course may be repeated up to 10 times. Additional repeats are possible with a waiver from the department chairperson. The ensemble is also available without credit.

Credits: 1-4

MUSI 122 - Chamber String Ensemble

The Chamber String Ensemble is a small ensemble selected for the study and performance of chamber music written for strings. Two hours a week rehearsal time. One to two credits for every semester of satisfactory participation is granted for this music performance group. The course may be repeated up to 10 times. Additional repeats are possible with a waiver from the department chairperson. The ensemble is also available without credit.

Credits: 1-2

MUSI 123 - Brass Ensemble

The university's Brass Ensemble is a select ensemble of brass (and percussion) players who study and perform music from all historical periods. Both large brass choir works and small chamber brass works are performed. The ensemble performs on and off campus. Two hours a week rehearsal time. One to two credits for every semester of satisfactory participation is granted for this music performance group. The course may be repeated up to 10 times. Additional repeats are possible with a waiver from the department chairperson. The ensemble is also available without credit.

Credits: 1-2

MUSI 124 - Woodwind Ensemble

The Woodwind Ensemble is a small select ensemble of woodwind players who study and perform music for woodwinds from all historical periods. Three hours a week rehearsal time. One credit for every semester of satisfactory participation is granted for this music performance group, with a maximum allowance of ten credits in any one music organization. Additional credits are possible with a waiver from the departmental chairperson. The ensemble is also available without credit.

Credits: 1

MUSI 125 - Percussion

This small select ensemble of percussionists studies and performs music composed and transcribed for both percussion and mallet ensembles. Two hours a week rehearsal time. One to two credits for every semester of satisfactory participation is granted for this music performance group. The course may be repeated up to 10 times. Additional repeats are possible with a waiver from the department chairperson. The ensemble is also available without credit.

Credits: 1-2

MUSI 126 - Flute Choir

The SRU Flute Choir is made up of a select group of flutists who will rehearse and perform a variety of music written for flute ensemble. Audition required. Two and a half hours a week rehearsal time. One to two credits for every semester of satisfactory participation is granted for this music performance group. The course may be repeated up to 10 times. Additional repeats are possible with a waiver from the department chairperson. The ensemble is also available without credit.

Credits: 1-2

MUSI 127 - Orientation to Music Therapy

Orientation to the field of music therapy through lectures, readings, and viewing music therapy sessions. The course includes an overview of music therapy history, principles, and foundations through a survey of music therapy literature and clinical applications.

Credits: 2

MUSI 128 - Applied Alexander Technique

This course is an introduction to the Alexander Technique in which the students will examine their habitual movement patterns in order to encourage positive energy usage within the body. This technique heightens kinesthetic sensitivity, offering performers a control that is fluid and lively, thus lessening chances of performance injury. The principles of this technique are based on an understanding of human anatomy, which promotes ease, and freedom of movement, balance, flexibility, and coordination. Course may be repeated up to two credits.

Credits: 1

MUSI 129 - Guitar Methods for Music Education

A music education course designed to prepare music education majors to teach guitar, string bass, and electric bass in elementary and secondary schools. It will also prepare students with the functional skills to use the guitar as an accompanying instrument.

Prerequisites & Notes

Music Education Majors only

Credits: 1-2

MUSI 131 - Class Piano I

For beginners with no previous keyboard experience. Fundamentals of note reading, beginning piano repertoire, melody harmonization and improvisation. Of particular value to the student desiring to gain a working knowledge of the piano either as a classroom tool or for personal use. Music majors only.

Credits: 1

MUSI 132 - Class Piano II

Continued development of skills begun in Class Piano I (MUSI 131). Music majors only.

Prerequisites & Notes

MUSI 131 or equivalent

Credits: 1

MUSI 133 - Class Voice

Designed for the purpose of studying basic singing technique and thereby producing a good vocal tone; valuable to the student interested in improving his/her vocal skill. Music majors only.

Credits: 1

MUSI 134 - Voice Methods

The pedagogy of singing is emphasized via individual teaching demonstrations thereby enabling students to improve their ability to communicate basic vocal principles to other students. Music majors only.

Prerequisites & Notes

MUSI 133

Credits: 1

MUSI 137 - Functional Guitar for Music Therapy I

A study of the fundamental concepts needed to play and teach beginning guitar. Students must provide their own instruments. Music majors only.

Credits: 1

MUSI 138 - Functional Guitar for Music Therapy II

Continued development of skills begun in Class Guitar I (MUSI 137). Music majors only.

Prerequisites & Notes

MUSI 137 or equivalent

Credits: 1

MUSI 139 - University Seminar

University Seminar serves as the entry point to the Slippery Rock University general education program. With its small seminar setting and strong faculty-student interaction, the course promotes intellectual inquiry, critical and creative thinking, and academic excellence. Through varied content, the course introduces students to academic discourse and information literacy while exploring topics such as diversity and inclusion and global awareness. This course will set students along the path to becoming engaged with issues and scholarship important to a 21st century education while they learn about themselves and their place in the world.

Credits: 3

MUSI 140 - Low Brass Methods

A study of the fundamental concepts and skills needed to play and teach trombone, baritone horn, euphonium, and tuba to homogeneous and heterogeneous instrument groups in pre-K-12 instrumental music education setting. This includes

the integration and application of national and state standards for music education.

Credits: 2

MUSI 151 - Music Theory and Analysis I

The student will study the grammar and literature of music through composition, analysis, listening, and performance. Three class meetings each week.

Prerequisites & Notes

Co-requisite: MUSI 154

Credits: 2

MUSI 154 - Musicianship Skills I

Students will develop aural, rhythmic and keyboard skills, sight-singing, intervals and triad recognition, simple meters, basic harmonic progressions, major and minor keys and scales. Two class meetings each week.

Prerequisites & Notes

Co-requisite: MUSI 151

Credits: 1

MUSI 165 - Applied Performance Voice

Applied lessons for the Bachelor of Music in Performance student. One lesson and 15 hours of practice each week are required for three credits. Applied lessons beyond degree requirements will be granted upon faculty availability. MUSI 165, 265, 365 may each be taken two times for a total of 18 credits; MUSI 465 may be taken four times for a total of 12 credits.

Prerequisites & Notes

Audition

Credits: 3

MUSI 166 - Applied Performance Piano

Applied lessons for the Bachelor of Music in Performance student. One lesson and 15 hours of practice each week are required for three credits. Applied lessons beyond degree requirements will be granted upon faculty availability. MUSI 166, 266, 366 may each be taken two times for a total of 18 credits; MUSI 466 may be taken four times for a total of 12 credits.

Prerequisites & Notes

Audition

Credits: 3

MUSI 167 - Applied Performance Strings

Applied lessons for the Bachelor of Music in Performance student. One lesson and 15 hours of practice each week are required for three credits. Applied lessons beyond degree requirements will be granted upon faculty availability. MUSI 167, 267, 367 may each be taken two times for a total of 18 credits; MUSI 467 may be taken four times for a total of 12 credits.

Prerequisites & Notes

Audition

Credits: 3

MUSI 168 - Applied Performance Woodwinds

Applied lessons for the Bachelor of Music in Performance student. One lesson and 15 hours of practice each week are required for three credits. Applied lessons beyond degree requirements will be granted upon faculty availability. MUSI 168, 268, 368 may each be taken two times for a total of 18 credits; MUSI 468 may be taken four times for a total of 12 credits.

Prerequisites & Notes

Audition

Credits: 3

MUSI 169 - Applied Performance Brass

Applied lessons for the Bachelor of Music in Performance student. One lesson and 15 hours of practice each week are required for three credits. Applied lessons beyond degree requirements will be granted upon faculty availability. MUSI 169, 269, 369 may each be taken two times for a total of 18 credits; MUSI 469 may be taken four times for a total of 12 credits.

Prerequisites & Notes

Audition

Credits: 3

MUSI 170 - Applied Performance Percussion

Applied lessons for the Bachelor of Music in Performance student. One lesson and 15 hours of practice each week are required for three credits. Applied lessons beyond degree requirements will be granted upon faculty availability. MUSI 170, 270 and 370 may each be taken two times for a total of 18 credits; MUSI 470 may be taken four times for a total of 12 credits.

Prerequisites & Notes

Audition

Credits: 3

MUSI 179 - Applied Piano

With the approval of the applied music teacher, lessons are available in piano, voice, and any of the standard string, brass, woodwind or percussion instruments. Materials studied will depend on the students' background and ability. Normally one lesson and five hours of practice each week are required.

Credits: 1

MUSI 181 - Applied Voice

With the approval of the applied music teacher, lessons are available in voice. Materials studied will depend on the students' background and ability. Normally one lesson and five hours of practice each week are required.

Credits: 1

MUSI 182 - Applied Strings

With the approval of the applied music teacher, lessons are available in standard string instruments. Materials studied will depend on the students' background and ability. Normally one lesson and five hours of practice each week are required.

Credits: 1

MUSI 183 - Applied Brass

With the approval of the applied music teacher, lessons are available in standard brass instruments. Materials studied will depend on the students' background and ability. Normally one lesson and five hours of practice each week are required.

Credits: 1

MUSI 184 - Applied Woodwinds

With the approval of the applied music teacher, lessons are available in standard woodwind instruments. Materials studied will depend on the students' background and ability. Normally one lesson and five hours of practice each week are required.

Credits: 1

MUSI 185 - Applied Percussion

With the approval of the applied music teacher, lessons are available in standard percussion instruments. Materials studied will depend on the students' background and ability. Normally one lesson and five hours of practice each week are required.

Credits: 1

MUSI 190 - Experimental

A unique and specifically focused course within the general purview of a department which intends to offer it on a "one time only" basis and not as a permanent part of the department's curriculum.

MUSI 192 - Tuba-Euphonium Ensemble

The SRU Tuba-Euphonium Ensemble is comprised of tuba and euphonium players who rehearse and perform a variety of music written for tuba-euphonium ensemble. This is open to all students regardless of major or area of emphasis. One to two credits for every semester of satisfactory participation is granted for this music performance group. The course may be repeated up to 10 times. Additional repeats are possible with a waiver from the department chairperson. The ensemble is also available without credit.

Credits: 1-2

MUSI 193 - Jazz Lab Band

The SRU Jazz Lab Band is a rehearsal ensemble that performs one concert per academic semester. The group does require an audition which takes place in the first week of the Fall semester. If openings occur in the Spring semester, the director will hold an audition for the open seats only. The ensemble rehearses big band literature from every stylistic period in jazz history. The focus of the course is on developing sight-reading, jazz performance practice and techniques, stylistic interpretation, foundational ensemble techniques, jazz band rehearsal techniques, and exposure to the literature, history, and composers of jazz music. This is open to all students regardless of major or area of emphasis. One to two credits for every semester of satisfactory participation is granted for this music performance group. The course may be repeated up to 10 times. Additional repeats are possible with a waiver from the department chairperson. The ensemble is also available without credit.

Credits: 1-2

MUSI 194 - World Percussion Ensemble

The SRU World Percussion Ensemble rehearses and performs the percussion music of cultures outside of Western Europe and the United States, concentrating on, but not exclusive to, the Caribbean (Trinidad and Tobago, Cuba, The Dominican Republic, and Puerto Rico), Asia (Japan, India, and Korea), South America (Brazil), and West Africa. Students learn the instruments, techniques, some choreography (when appropriate), and musical styles in multiple genres for at least one public performance each academic semester. The ensemble rehearses and performs on authentic instruments (whenever possible) or modern, commercially available substitutes. This is open to all students regardless of major or area of emphasis. One to two credits for every semester of satisfactory participation is granted for this music performance group. The course may be repeated up to 10 times. Additional repeats are possible with a waiver from the department chairperson. The ensemble is also available without credit.

Credits: 1-2

MUSI 195 - Workshop

A workshop is a program which is usually of short duration, narrow in scope, often non-traditional in content and format, and on a timely topic.

MUSI 196 - Winter Guard

The Slippery Rock University Winter Guard is the indoor color guard performing ensemble. In this performing ensemble, students will combine the use of flags, sabers, mock rifles, and other equipment, as well as dance and interpretive movement, in shows for public performance and competition. Held in the spring semester the group performs in competition as part of the indoor marching arts circuit as well as for campus and community events. The course may be repeated up to 5 times. Additional repeats are possible with a waiver from the department chairperson.

Prerequisites & Notes

Audition with instructor

Credits: 1-2

MUSI 198 - Selected Topic

A **Selected Topics** course is a normal, departmental offering which is directly related to the discipline, but because of its specialized nature, may not be able to be offered on a yearly basis by the department.

MUSI 199 - Fundamental Skills in Music Therapy

Designed to prepare music therapy majors in fundamental clinical skills in music therapy necessary for working with a variety of client populations. It includes identifying client needs, delineating goals and objectives, task analysis and treatment strategies (re-creative techniques) through the application of functional music skills. Group processes and leadership techniques appropriate for various clientele.

Prerequisites & Notes

MUSI 127,137

Credits: 2

MUSI 201 - Studies in Children's Music

Listening, moving, playing instruments, singing and creating using repertoire suitable for children of various developmental levels.

Credits: 3

MUSI 203 - Musician's Health

This course is designed for music students, performing arts majors or any student who desires a deeper understanding of musicianship and performing artist wellness. An emphasis on healthy living for the performer including elimination of risk for injury will be discussed. The course will explore concepts such as ergonomics, good posture, and breathing and support. Students will learn about concepts such as effective practicing and the brain's perception of sound. Students will learn to identify and correct problems facing the performer when they arise.

Credits: 1

MUSI 204 - Art and Science of Performing

This course focuses on how to define, detect, and manage performance anxiety. Students will learn about the body's innate response to stress and pressure situations, and how to recognize maladaptive responses to pressure situations. Students will learn about conventional methods for treating performance anxiety as well as unconventional methods including self-analysis, meditation, guided imagery, and the Alexander technique. Pre-performance routines such as centering will be discussed. Students will learn about tools such as engaged practicing that will help to produce better performances. The concept of flow state will also be discussed.

Credits: 1

MUSI 205 - Music in Recreation

A practical study of the ways and means of planning effective music programs for leisure and recreation and developing the competencies needed by a music leader in recreation.

Credits: 3

MUSI 206 - Fundamentals of Conducting

In this course, students will learn the foundational skills necessary to conduct both instrumental and vocal ensembles. As an introductory course, it will serve as a catalyst for developing the lifelong conductor-practitioner regardless of area emphasis - vocal or instrumental. Fundamental skills that will be developed include, but are not limited to: conducting patterns in stationary focal point conducting, expressive gesture, baton technique and basic transpositions.

Prerequisites & Notes

MUSI 253 and MUSI 256

Credits: 1

MUSI 208 - Clarinet and Saxophone Methods

A study of the fundamental concepts and skills needed to play and teach clarinet and saxophone to homogeneous and heterogeneous instrument groups in pre-K-12 instrumental music education setting. This includes the integration and application of national and state standards for music education.

Credits: 2

MUSI 209 - Jazz Combo

Students will meet weekly with the appropriate faculty member to work on jazz performance in the small group (combo) setting. Study of phrasing, articulation, jazz theory, improvisation, and other jazz performance practices will be addressed. Students will be auditioned at the beginning of the semester for placement. At least one public performance will be given per semester. One hour of rehearsal time per week. One credit for every semester of satisfactory participation is granted for this music performance group. The course may be repeated up to 10 times. Additional repeats are possible with a waiver from the department chairperson. The ensemble is also available without credit.

Credits: 1

MUSI 212 - Fundamentals of Conducting Lab

This course is the lab component to MUSI 206: Fundamentals of Conducting and will include application of conducting skills through time on the podium.

Prerequisites & Notes

Pre-requisite: MUSI 253 and MUSI 256

Co-requisite: MUSI 206

Credits: 1

MUSI 213 - Saxophone Quartet

Students will meet weekly with the appropriate faculty member to work on literature selected for their performance ability level. Study of phrasing, articulation, balance, blend, intonation, and other performance practices will be addressed. Students will be auditioned at the beginning of the semester for placement. At least one public performance will be given per semester. Two hours per week rehearsal time. One to two credits for every semester of satisfactory participation is granted for this music performance group. The course may be repeated up to 10 times. Additional repeats are possible with a waiver from the department chairperson. The ensemble is also available without credit.

Credits: 1-2

MUSI 214 - Symphonic Wind Ensemble

Symphonic Wind Ensemble: A chamber ensemble composed of select musicians chosen by audition, performing contemporary literature as well as transcriptions for winds and percussion. Four and a half hours of week rehearsal time. One to four credits for every semester of satisfactory participation is granted for this music performance group. The course may be repeated up to 10 times. Additional repeats are possible with a waiver from the department chairperson. The ensemble is also available without credit.

Prerequisites & Notes

Audition with the director of the Symphonic Wind Ensemble and the instrumental faculty

Credits: 1-4

MUSI 215 - Concert Choir

Auditioned mixed chorus of 50-70 singers that studies and performs a variety of music from Renaissance to 21st century, classical to contemporary, a cappella and music accompanied by piano, chamber groups, and symphonic ensembles. Three hours per week rehearsal time. Multiple concerts are presented both on and off campus and on periodic tours. One to three credits for every semester of satisfactory participation is granted for this music performance group. The course may be repeated up to 10 times. Additional repeats are possible with a waiver from the department chairperson. Entrance is by successful audition, held the first week of classes every semester; contact the instructor for information. The ensemble is also available without credit.

Credits: 1-3

MUSI 216 - Women's Choir

An ensemble of 30-40 women who perform choral music especially composed for female voices. This ensemble performs traditional and modern repertoire, with and without accompaniment. Concerts are presented on campus and on tours. Two and one-half hours per week rehearsal time. Multiple concerts are presented both on and off campus and on periodic tours. One to two credits for every semester of satisfactory participation is granted for this music performance group. The course may be repeated up to 10 times. Additional repeats are possible with a waiver from the

department chairperson. No audition is required. The ensemble is also available without credit.

Credits: 1-2

MUSI 217 - Chamber Singers

An elite chamber choir of 16-24 outstanding singers who perform challenging repertoire with a greater emphasis on a cappella music. Members of this group are expected to display initiative to prepare music to the highest possible level of their ability. Two and one-half hours per week rehearsal time. One or two credits for every semester of satisfactory participation is granted for this music performance group. The course may be repeated up to 10 times. Additional repeats are possible with a waiver from the department chairperson. Entrance is by successful audition, held the first week of classes every semester; contact the instructor for information. The ensemble is also available without credit.

Prerequisites & Notes

Co-requisite: MUSI 215

Credits: 1-2

MUSI 218 - Marching Pride

The Marching Pride performs during the half time at football games, both home and away, and for other special events. Much of its music is specially arranged. Open to all students. Six hours a week rehearsal during the football season. One to six credits for every semester of satisfactory participation is granted for this music performance group. The course may be repeated up to 6 times. Additional repeats are possible with a waiver from the department chairperson. The ensemble is also available without credit.

Credits: 1-6

MUSI 219 - Concert Band

The Concert Band members are carefully selected to provide a balanced instrumentation of the best players. Music written for concert band is the main repertoire. Concerts on campus. Four hours a week rehearsal time. One to four credits for every semester of satisfactory participation is granted for this music performance group. The course may be repeated up to 5 times. Additional repeats are possible with a waiver from the department chairperson. The ensemble is also available without credit.

Credits: 1-4

MUSI 220 - Jazz Ensemble

The SRU Jazz Ensemble performs jazz literature from all eras of jazz history including big band, bop, hard bop, fusion and contemporary. This ensemble often performs with guest artists of national and international stature, both on and off campus. Membership in this ensemble requires an audition. Three hours and forty-five minutes of rehearsal per week. One to three credits for every semester of satisfactory participation is granted for this music performance group. The course may be repeated up to 10 times. Additional repeats are possible with a waiver from the department chairperson. The ensemble is also available without credit.

Credits: 1-3

MUSI 221 - Orchestra

The orchestra is a string ensemble, with winds and percussion added when needed, which performs music from the orchestral repertoire. Admission by audition. Four hours a week rehearsal time. One to four credits for every semester of satisfactory participation is granted for this music performance group. The course may be repeated up to 10 times. Additional repeats are possible with a waiver from the department chairperson. The ensemble is also available without credit.

Credits: 1-4

MUSI 222 - Chamber String Ensemble

The Chamber String Ensemble is a small ensemble selected for the study and performance of chamber music written for strings. Two hours a week rehearsal time. One to two credits for every semester of satisfactory participation is granted for this music performance group. The course may be repeated up to 10 times. Additional repeats are possible with a waiver from the department chairperson. The ensemble is also available without credit.

Credits: 1-2

MUSI 223 - Brass Ensemble

The university's Brass Ensemble is a select ensemble of brass (and percussion) players who study and perform music from all historical periods. Both large brass choir works and small chamber brass works are performed. The ensemble performs on and off campus. Two hours a week rehearsal time. One to two credits for every semester of satisfactory participation is granted for this music performance group. The course may be repeated up to 10 times. Additional repeats are possible with a waiver from the department chairperson. The ensemble is also available without credit.

Credits: 1-2

MUSI 224 - Woodwind Ensemble

The Woodwind Ensemble is a small select ensemble of woodwind players who study and perform music for woodwinds from all historical periods. Three hours a week rehearsal time. One credit for every semester of satisfactory participation is granted for this music performance group, with a maximum allowance of ten credits in any one music organization. Additional credits are possible with a waiver from the departmental chairperson. The ensemble is also available without credit.

Credits: 1

MUSI 225 - Percussion

This small select ensemble of percussionists studies and performs music composed and transcribed for both percussion and mallet ensembles. Two hours a week rehearsal time. One to two credits for every semester of satisfactory participation is granted for this music performance group. The course may be repeated up to 10 times. Additional repeats are possible with a waiver from the department chairperson. The ensemble is also available without credit.

Credits: 1-2

MUSI 226 - Flute Choir

The SRU Flute Choir is made up of a select group of flutists who will rehearse and perform a variety of music written for flute ensemble. Audition required. Two and a half hours a week rehearsal time. One to two credits for every

semester of satisfactory participation is granted for this music performance group. The course may be repeated up to 10 times. Additional repeats are possible with a waiver from the department chairperson. The ensemble is also available without credit.

Credits: 1-2

MUSI 228 - Therapeutic Musical Strategies

Designed to further prepare music majors in various therapeutic musical strategies (receptive and compositional techniques) through the application of functional music skills, group processes and leadership techniques appropriate for various clientele.

Prerequisites & Notes

MUSI 127, 137, 138, 199 or concurrent enrollment

Credits: 2

MUSI 229 - Clinical Integration

A supervised clinical experience allowing the music therapy student practical experience in a variety of community health care agencies and educational settings.

Prerequisites & Notes

MUSI 127, 137, 138, 199 or concurrent enrollment

Credits: 0 or 1

MUSI 230 - Clinical Integration

A supervised clinical experience allowing the music therapy student practical experience in a variety of community health care agencies and educational settings.

Prerequisites & Notes

MUSI 228, 229

Credits: 0 or 1

MUSI 233 - Chamber Music Performance

A chamber music ensemble (of various instrumental and/or vocal combinations) which studies and performs music from many style periods. Two hours a week rehearsal time. Course may be repeated up to ten credits. Permission of the instructor.

Credits: 1-2

MUSI 234 - Class Piano III

Continued development of skills acquired in Class Piano II to prepare music majors for piano proficiency exam, including sight-reading, transposition, playing by ear, technique and repertoire. Music majors only.

Prerequisites & Notes

MUSI 132 or equivalent

Credits: 1

MUSI 235 - Class Piano IV

Continued development of skills acquired in Class Piano III to prepare music majors for piano proficiency exam, including sight-reading, transposition, playing by ear, technique and repertoire. Music majors only.

Prerequisites & Notes

MUSI 234 or equivalent

Credits: 1

MUSI 236 - Music Therapy Assessment, Measurement and Evaluation

This course will present professional standards of music therapy practice including assessment, documentation, and evaluation; as well as techniques and application of behavioral observation and measurement in music therapy.

Prerequisites & Notes

MUSI 127, 199 and 228

Credits: 2

MUSI 237 - Opera Performance

Performance of scenes, arias, or full operas, taking into consideration the interest and skill of each student. Four hours of rehearsal per week; more rehearsal as needed in weeks leading to performance. One to four credits for every semester of satisfactory participation is granted for this music performance group. Additional repeats are possible with a waiver from the department chairperson. Each course number may be repeated up to five times.

Prerequisites & Notes

Declared Voice major or permission of the instructor.

Credits: 1-4

MUSI 245 - Brass Methods

A study of the fundamental concepts needed to play and teach beginning brass instruments (French horn, trumpet, trombone, baritone horn, tuba) both as soloists and in ensemble.

Credits: 1

MUSI 247 - Percussion Methods

A study of the fundamental concepts needed to play and teach beginning percussion instruments (pitched and non-pitched).

Credits: 1

MUSI 253 - Music Theory and Analysis II

This course is a continuation of Comprehensive Musicianship I. The student will study musical literature written between 600-1750 through composition, analysis, aural discrimination, diatonic harmony, modal counterpoint, and performance. Three class meetings each week.

Prerequisites & Notes

MUSI 151 or equivalent; Co-requisite: Should be taken concurrently with MUSI 256

Credits: 2

MUSI 254 - Music Theory and Analysis III

This course is a continuation of the Comprehensive Musicianship I and II semesters in which the student will study the musical literature of the years 1750-1900 through the means of chromatic harmony, analysis, score reading, aural discrimination, composition and performance. Three class meetings each week.

Prerequisites & Notes

MUSI 253 or equivalent; Co-requisite: should be taken concurrently with MUSI 257

Credits: 2

MUSI 255 - Music Theory and Analysis IV

This course is a continuation of the Comprehensive Musicianship I, II and III sequence. Musical literature of the 20th century will be approached through analysis, listening, score reading, composition and performance. Three class meetings per week.

Prerequisites & Notes

MUSI 254 or equivalent; Co-requisite: should be taken concurrently with MUSI 258

Credits: 2

MUSI 256 - Musicianship Skills II

Students will work on more advanced harmonies, cadences, phrases, basic harmonization, triadic patterns, sight-singing skip, compound meters. Two class meetings per week.

Prerequisites & Notes

MUSI 154 or equivalent; Co-requisite: should be taken concurrently with MUSI 253

Credits: 1

MUSI 257 - Musicianship Skills III

Continued study of chromatic harmony and more complex melodic passages, complex meters. Two class meetings per week.

Prerequisites & Notes

MUSI 256 or equivalent; Co-requisite: should be taken concurrently with MUSI 254

Credits: 1

MUSI 258 - Musicianship Skills IV

Study of rhythmic counterpoint and late 19th century and 20th century harmony. Two class meetings per week.

Prerequisites & Notes

MUSI 257 or equivalent; Co-requisite: should be taken concurrently with MUSI 255

Credits: 1

MUSI 265 - Applied Performance Voice

Applied lessons for the Bachelor of Music in Performance student. One lesson and 15 hours of practice each week are required for three credits. Applied lessons beyond degree requirements will be granted upon faculty availability. MUSI 165, 265, 365 may each be taken two times for a total of 18 credits; MUSI 465 may be taken four times for a total of 12 credits.

Prerequisites & Notes

Audition

Credits: 3

MUSI 266 - Applied Performance Piano

Applied lessons for the Bachelor of Music in Performance student. One lesson and 15 hours of practice each week are required for three credits. Applied lessons beyond degree requirements will be granted upon faculty availability. MUSI 166, 266, 366 may each be taken two times for a total of 18 credits; MUSI 466 may be taken four times for a total of 12 credits.

Prerequisites & Notes

Audition

Credits: 3

MUSI 267 - Applied Performance Strings

Applied lessons for the Bachelor of Music in Performance student. One lesson and 15 hours of practice each week are required for three credits. Applied lessons beyond degree requirements will be granted upon faculty availability. MUSI 167, 267, 367 may each be taken two times for a total of 18 credits; MUSI 467 may be taken four times for a total of 12 credits.

Prerequisites & Notes

Audition

Credits: 3

MUSI 268 - Applied Performance Woodwinds

Applied lessons for the Bachelor of Music in Performance student. One lesson and 15 hours of practice each week are required for three credits. Applied lessons beyond degree requirements will be granted upon faculty availability. MUSI 168, 268, 368 may be taken two times for a total of 18 credits; MUSI 468 may be taken four times for a total of 12 credits.

Prerequisites & Notes

Audition

Credits: 3

MUSI 269 - Applied Performance Brass

Applied lessons for the Bachelor of Music in Performance student. One lesson and 15 hours of practice each week are required for three credits. Applied lessons beyond degree requirements will be granted upon faculty availability. MUSI 169, 269, 369 may each be taken two times for a total of 18 credits; MUSI 469 may be taken four times for a total of 12 credits.

Prerequisites & Notes

Audition

Credits: 3

MUSI 270 - Applied Performance Percussion

Applied lessons for the Bachelor of Music in Performance student. One lesson and 15 hours of practice each week are required for three credits. Applied lessons beyond degree requirements will be granted upon faculty availability. MUSI 170, 270 and 370 may each be taken two times for a total of 18 credits; MUSI 470 may be taken four times for a total of 12 credits.

Prerequisites & Notes

Audition

Credits: 3

MUSI 275 - Keyboard Music

This course will examine the music literature for western keyboard instruments using live and recorded performances.

Credits: 3

MUSI 276 - Songs & Singers

This course will examine music literature for voice. Areas of consideration include solo songs, opera, oratoria, and vocal chamber music.

Credits: 3

MUSI 278 - Literature of the American Musical Theater

A study of the changing styles in the musical theater from 1860 to current Broadway musicals, rock operas, and operetta. Study conducted through the use of recordings, scores and participation.

Credits: 3

MUSI 279 - Applied Piano

With the approval of the applied music teacher, lessons are available in piano. Materials studied will depend on the students' background and ability. Normally one lesson and five hours of practice each week are required.

Credits: 1

MUSI 281 - Applied Voice

With the approval of the applied music teacher, lessons are available in standard voice. Materials studied will depend on the students' background and ability. Normally one lesson and five hours of practice each week are required.

Credits: 1

MUSI 282 - Applied Strings

With the approval of the applied music teacher, lessons are available in string instruments. Materials studied will depend on the students' background and ability. Normally one lesson and five hours of practice each week are required.

Credits: 1

MUSI 283 - Applied Brass

With the approval of the applied music teacher, lessons are available in standard brass instruments. Materials studied will depend on the students' background and ability. Normally one lesson and five hours of practice each week are required.

Credits: 1

MUSI 284 - Applied Woodwinds

With the approval of the applied music teacher, lessons are available in standard woodwind instruments. Materials studied will depend on the students' background and ability. Normally one lesson and five hours of practice each week are required.

Credits: 1

MUSI 285 - Applied Percussion

With the approval of the applied music teacher, lessons are available in standard percussion instruments. Materials studied will depend on the students' background and ability. Normally one lesson and five hours of practice each week are required.

Credits: 1

MUSI 288 - Music Education for Diverse Learners

This course is an introduction to historical and instructional foundations of using music with diverse learners. Major topics and developments in the field of special education, important terminology, and curricular issues are explored. Students will learn about the characteristics of students with specific needs, the educational effects of these needs, appropriate adaptations, as well as music education approaches used with diverse learners.

Credits: 3

MUSI 290 - Experimental

A unique and specifically focused course within the general purview of a department which intends to offer it on a “one time only” basis and not as a permanent part of the department’s curriculum.

MUSI 291 - Field Experience in Music 2: Pre-K Experience

In this course, students will complete Field Experience Level 2: Exploration by observing and assisting in a pre-K music class taught by a certified music educator with teaching experience with pre-K students.

Prerequisites & Notes

Pre-requisite: MUSI 111: Introduction to Music Education with C or higher

Credits: 1

MUSI 292 - Tuba-Euphonium Ensemble

The SRU Tuba-Euphonium Ensemble is comprised of tuba and euphonium players who rehearse and perform a variety of music written for tuba-euphonium ensemble. This is open to all students regardless of major or area of emphasis. One to two credits for every semester of satisfactory participation is granted for this music performance group. The course may be repeated up to 10 times. Additional repeats are possible with a waiver from the department chairperson. The ensemble is also available without credit.

Credits: 1-2

MUSI 293 - Jazz Lab Band

The SRU Jazz Lab Band is a rehearsal ensemble that performs one concert per academic semester. The group does require an audition which takes place in the first week of the Fall semester. If openings occur in the Spring semester, the director will hold an audition for the open seats only. The ensemble rehearses big band literature from every stylistic period in jazz history. The focus of the course is on developing sight-reading, jazz performance practice and techniques, stylistic interpretation, foundational ensemble techniques, jazz band rehearsal techniques, and exposure to the literature, history, and composers of jazz music. This is open to all students regardless of major or area of emphasis. One to two credits for every semester of satisfactory participation is granted for this music performance group. The course may be repeated up to 10 times. Additional repeats are possible with a waiver from the department chairperson. The ensemble is also available without credit.

Credits: 1-2

MUSI 294 - World Percussion Ensemble

The SRU World Percussion Ensemble rehearses and performs the percussion music of cultures outside of Western Europe and the United States, concentrating on, but not exclusive to, the Caribbean (Trinidad and Tobago, Cuba, The Dominican Republic, and Puerto Rico), Asia (Japan, India, and Korea), South America (Brazil), and West Africa. Students learn the instruments, techniques, some choreography (when appropriate), and musical styles in multiple genres for at least one public performance each academic semester. The ensemble rehearses and performs on authentic instruments (whenever possible) or modern,

commercially available substitutes. This is open to all students regardless of major or area of emphasis. One to two credits for every semester of satisfactory participation is granted for this music performance group. The course may be repeated up to 10 times. Additional repeats are possible with a waiver from the department chairperson. The ensemble is also available without credit.

Credits: 1-2

MUSI 295 - Workshop

A workshop is a program which is usually of short duration, narrow in scope, often non-traditional in content and format, and on a timely topic.

MUSI 296 - Winter Guard

The Slippery Rock University Winter Guard is the indoor color guard performing ensemble. In this performing ensemble, students will combine the use of flags, sabers, mock rifles, and other equipment, as well as dance and interpretive movement, in shows for public performance and competition. Held in the spring semester the group performs in competition as part of the indoor marching arts circuit as well as for campus and community events. The course may be repeated up to 5 times. Additional repeats are possible with a waiver from the department chairperson.

Prerequisites & Notes

Audition with instructor

Credits: 1-2

MUSI 298 - Selected Topic

A **Selected Topics** course is a normal, departmental offering which is directly related to the discipline, but because of its specialized nature, may not be able to be offered on a yearly basis by the department.

MUSI 299 - Diction for Singers I

In this study of language diction for singers, students will learn the International Phonetic Alphabet and apply it to the singing of English and Italian songs. The course is open to all voice majors.

Prerequisites & Notes

MUSI 133 or 181

Credits: 1-2

MUSI 300 - Marching Band Techniques

Planning and preparation of half time shows using computer assisted design software and the "corps style" approach. Leadership skills, marching band pedagogy, and hand charting techniques will also be studied.

Prerequisites & Notes

One semester prior experience in the Marching Pride or concurrent enrollment

Credits: 1

MUSI 301 - Women and Music

Explores the musical contributions of women, a group often excluded from studies of music history, from the Middle Ages to the present. Emphasis will be placed on the changing roles of and attitudes towards women as composers, performers, teachers, writers, patrons, and instrument-builders. Focus will be on the music itself, as well as reception history and historical and sociological context. There will also be discussion on the role of gender in shaping musical ideology and experiences.

Prerequisites & Notes

MUSI 101 or permission of the instructor

Credits: 3

MUSI 304 - String Methods

A study of the fundamental concepts needed to play and teach beginning string instruments (violin, viola, cello, or string bass). No previous experience required. Instruments are provided by the university.

Credits: 1

MUSI 309 - Jazz Combo

Students will meet weekly with the appropriate faculty member to work on jazz performance in the small group (combo) setting. Study of phrasing, articulation, jazz theory, improvisation, and other jazz performance practices will be addressed. Students will be auditioned at the beginning of the semester for placement. At least one public performance will be given per semester. One hour of rehearsal time per week. One credit for every semester of satisfactory participation is granted for this music performance group. The course may be repeated up to 10 times. Additional repeats are possible with a waiver from the department chairperson. The ensemble is also available without credit.

Credits: 1

MUSI 312 - Music Therapy for Children

Application of music therapy techniques and materials in all areas of mental health and special education.

Prerequisites & Notes

Prerequisites: MUSI 236 and (SPED 121 or SPED 122)

Credits: 3

MUSI 313 - Saxophone Quartet

Students will meet weekly with the appropriate faculty member to work on literature selected for their performance ability level. Study of phrasing, articulation, balance, blend, intonation, and other performance practices will be

addressed. Students will be auditioned at the beginning of the semester for placement. At least one public performance will be given per semester. Two hours per week rehearsal time. One to two credits for every semester of satisfactory participation is granted for this music performance group. The course may be repeated up to 10 times. Additional repeats are possible with a waiver from the department chairperson. The ensemble is also available without credit.

Credits: 1-2

MUSI 314 - Symphonic Wind Ensemble

Symphonic Wind Ensemble: A chamber ensemble composed of select musicians chosen by audition, performing contemporary literature as well as transcriptions for winds and percussion. Four and a half hours of week rehearsal time. One to four credits for every semester of satisfactory participation is granted for this music performance group. The course may be repeated up to 10 times. Additional repeats are possible with a waiver from the department chairperson. The ensemble is also available without credit.

Prerequisites & Notes

Audition with the director of the Symphonic Wind Ensemble and the instrumental faculty

Credits: 1-4

MUSI 315 - Concert Choir

Auditioned mixed chorus of 50-70 singers that studies and performs a variety of music from Renaissance to 21st century, classical to contemporary, a cappella and music accompanied by piano, chamber groups, and symphonic ensembles. Three hours per week rehearsal time. Multiple concerts are presented both on and off campus and on periodic tours. One to three credits for every semester of satisfactory participation is granted for this music performance group. The course may be repeated up to 10 times. Additional repeats are possible with a waiver from the department chairperson. Entrance is by successful audition, held the first week of classes every semester; contact the instructor for information. The ensemble is also available without credit.

Credits: 1-3

MUSI 316 - Women's Choir

An ensemble of 30-40 women who perform choral music especially composed for female voices. This ensemble performs traditional and modern repertoire, with and without accompaniment. Concerts are presented on campus and on tours. Two and one-half hours per week rehearsal time. Multiple concerts are presented both on and off campus and on periodic tours. One to two credits for every semester of satisfactory participation is granted for this music performance group. The course may be repeated up to 10 times. Additional repeats are possible with a waiver from the department chairperson. No audition is required. The ensemble is also available without credit.

Credits: 1-2

MUSI 317 - Chamber Singers

An elite chamber choir of 16-24 outstanding singers who perform challenging repertoire with a greater emphasis on a cappella music. Members of this group are expected to display initiative to prepare music to the highest possible level of their ability. Two and one-half hours per week rehearsal time. One or two credits for every semester of satisfactory participation is granted for this music performance group. The course may be repeated up to 10 times. Additional repeats are possible with a waiver from the department chairperson. Entrance is by successful audition, held the first week of classes every semester; contact the instructor for information. The ensemble is also available without credit.

Prerequisites & Notes

Co-requisite: MUSI 315

Credits: 1-2

MUSI 318 - Marching Pride

The Marching Pride performs during the half time at football games, both home and away, and for other special events. Much of its music is specially arranged. Open to all students. Six hours a week rehearsal during the football season. One to six credits for every semester of satisfactory participation is granted for this music performance group. The course may be repeated up to 6 times. Additional repeats are possible with a waiver from the department chairperson. The ensemble is also available without credit.

Credits: 1-6

MUSI 319 - Concert Band

The Concert Band members are carefully selected to provide a balanced instrumentation of the best players. Music written for concert band is the main repertoire. Concerts on campus. Four hours a week rehearsal time. One to four credits for every semester of satisfactory participation is granted for this music performance group. The course may be repeated up to 5 times. Additional repeats are possible with a waiver from the department chairperson. The ensemble is also available without credit.

Credits: 1-4

MUSI 320 - Jazz Ensemble

The SRU Jazz Ensemble performs jazz literature from all eras of jazz history including big band, bop, hard bop, fusion and contemporary. This ensemble often performs with guest artists of national and international stature, both on and off campus. Membership in this ensemble requires an audition. Three hours and forty-five minutes of rehearsal per week. One to three credits for every semester of satisfactory participation is granted for this music performance group. The course may be repeated up to 10 times. Additional repeats are possible with a waiver from the department chairperson. The ensemble is also available without credit.

Credits: 1-3

MUSI 321 - Orchestra

The orchestra is a string ensemble, with winds and percussion added when needed, which performs music from the orchestral repertoire. Admission by audition. Four hours a week rehearsal time. One to four credits for every semester of satisfactory participation is granted for this music performance group. The course may be repeated up to 10 times. Additional repeats are possible with a waiver from the department chairperson. The ensemble is also available without credit.

Credits: 1-4

MUSI 322 - Chamber String Ensemble

The Chamber String Ensemble is a small ensemble selected for the study and performance of chamber music written for strings. Two hours a week rehearsal time. One to two credits for every semester of satisfactory participation is granted for this music performance group. The course may be repeated up to 10 times. Additional repeats are possible

with a waiver from the department chairperson. The ensemble is also available without credit.

Credits: 1-2

MUSI 323 - Brass Ensemble

The university's Brass Ensemble is a select ensemble of brass (and percussion) players who study and perform music from all historical periods. Both large brass choir works and small chamber brass works are performed. The ensemble performs on and off campus. Two hours a week rehearsal time. One to two credits for every semester of satisfactory participation is granted for this music performance group. The course may be repeated up to 10 times. Additional repeats are possible with a waiver from the department chairperson. The ensemble is also available without credit.

Credits: 1-2

MUSI 324 - Woodwind Ensemble

The Woodwind Ensemble is a small select ensemble of woodwind players who study and perform music for woodwinds from all historical periods. Three hours a week rehearsal time. One credit for every semester of satisfactory participation is granted for this music performance group, with a maximum allowance of ten credits in any one music organization. Additional credits are possible with a waiver from the departmental chairperson. The ensemble is also available without credit.

Credits: 1

MUSI 325 - Percussion

This small select ensemble of percussionists studies and performs music composed and transcribed for both percussion and mallet ensembles. Two hours a week rehearsal time. One to two credits for every semester of satisfactory participation is granted for this music performance group. The course may be repeated up to 10 times. Additional repeats are possible with a waiver from the department chairperson. The ensemble is also available without credit.

Credits: 1-2

MUSI 326 - Flute Choir

The SRU Flute Choir is made up of a select group of flutists who will rehearse and perform a variety of music written for flute ensemble. Audition required. Two and a half hours a week rehearsal time. One to two credits for every semester of satisfactory participation is granted for this music performance group. The course may be repeated up to 10 times. Additional repeats are possible with a waiver from the department chairperson. The ensemble is also available without credit.

Credits: 1-2

MUSI 327 - Psychology of Music

This course combines the study of 1) a survey and analysis of music therapy research in order to provide a foundation for developing skills in formulating a research question, reviewing the literature, designing a study, examining ethical questions related to research, analyzing data and writing reports; and 2) psychological and physiological foundations of musical behavior.

Prerequisites & Notes

PSYC 100 or 105 and MUSI 236

Credits: 3

MUSI 329 - Clinical Integration

A supervised clinical experience allowing the music therapy student practical experience in a variety of community health care agencies and educational settings.

Prerequisites & Notes

MUSI 230

Credits: 0 or 1

MUSI 330 - Clinical Integration

A supervised clinical experience allowing the music therapy student practical experience community health care agencies and educational settings.

Prerequisites & Notes

MUSI 329

Credits: 0 or 1

MUSI 332 - Vocal Conducting

This course is designed to give the student a practical knowledge of choral conducting techniques and a theoretical understanding of the Vocal Ensemble and its function from auditions through performance.

Prerequisites & Notes

MUSI 133,155 or equivalent

Credits: 1

MUSI 333 - Instrumental Conducting

The practical aspects of learning to conduct the instrumental ensemble. Students will focus on developing expressive gestures to enhance the basic techniques. Score study, acoustical properties of the instruments, ensemble precision, balance and intonation will be addressed.

Prerequisites & Notes

MUSI 151 or equivalent

Credits: 1

MUSI 334 - Secondary School Music

The course is designed to prepare the student to teach junior and senior high school choral and general music, choose appropriate teaching materials, supervise a music program, and become aware of professional organizations, workshops, and conferences. Field experience required. Students must register for MUSI 335, 336 and

353 concurrently with this course to complete field experience in the public schools as part of the requirements of this course.

Prerequisites & Notes

Co requisites MUSI 335, 336, 353

Prerequisite - MUSI 134, 332

Effective Spring 2019 the prerequisite course will be MUSI 206

Credits: 2

MUSI 335 - Elementary School Music Methods

A music education course designed to prepare the music education major to teach elementary classroom/vocal music in the public schools through the study of musical literature, methodologies and materials appropriate for use with children. Field experience required.

Prerequisites & Notes

Prerequisite - MUSI 134

Co requisites MUSI 334, 336, 353

Effective Spring 2019, the prerequisite course will be MUSI 258

Credits: 2

MUSI 336 - Instrumental Methods

Instrumental methods is a music education course designed to prepare the student for a career in public school instrumental music, including: appropriate literature, repair of instruments, public relations, and rehearsal techniques. Field Experience Required. Students must register for MUSI 334, 335 and 353 concurrently with this course to complete field experience in the public schools as part of the requirements of this course.

Prerequisites & Notes

Co requisites MUSI 334, 335, 353

Prerequisites - MUSI 245, 247, 304, 333, 374 (for Spring 2017)

Effective Spring 2019 the prerequisites will be: MUSI 206, 245, 247, 304, 374

Credits: 2

MUSI 337 - Instrumental Rehearsal Techniques

In this course for music education majors, students will analyze and conduct beginning and intermediate musical scores for concert band and orchestra. The student conductor will identify performance errors and learn specific rehearsal techniques to improve the ensemble's performance. Students must register for MUSI 339 concurrently with this course to complete field experience in the public schools as part of the requirements of this course.

Prerequisites & Notes

Prerequisites: MUSI 206, 245, 247, 304, 374, 406
Co requisite MUSI 339

Credits: 1

MUSI 339 - Rehearsal Techniques Field Experience

In this course, students will complete field experience with a focus on ensemble rehearsals in the public schools, supervised by university faculty who are certified music educators.

Prerequisites & Notes

Prerequisites - MUSI 245, 246, 247, 304, 333, 374 (effective Fall 2017)
Co requisite MUSI 337

Prerequisites effective Fall 2019 - MUSI 206, 245, 247, 304, 374, 406

Credits: 1

MUSI 350 - Computer Technology in Music

This course will introduce students to the technologies that are prevalent in the music and arts world today. Students will study the history of music and technology and work with today's computer music technologies such as, DC-Rom and MIDI, as well as creating software through the use of the program Hypercard.

Prerequisites & Notes

MUSI 255

Credits: 2

MUSI 351 - Arranging & Orchestration

This course covers the basic concepts of arranging relative to instrumental and vocal groups. Emphasis is placed on the making of arrangements in addition to the transcription of composition.

Prerequisites & Notes

MUSI 255, 350

Effective Spring 2019 the prerequisite course will be MUSI 255

Credits: 2

MUSI 352 - Music Technology

This course will cover the basic techniques, operation and creative use of recording equipment, electronic music equipment, and computer equipment through practical experience in the Department of Music's recording studio, electronic music studio, and computer music laboratory. Application of music technology in music education, composition, performance, and studio work will be addressed.

Prerequisites & Notes

Permission of the instructor

Credits: 3

MUSI 353 - Music Methods Block Field Experience

In this course, students will complete field experience with a focus on elementary, secondary and/or instrumental music in the schools, supervised by university faculty who are certified music educators.

Prerequisites & Notes

Prerequisites MUSI 206, 245, 304, 374

Co requisites MUSI 334, 335, 336

Credits: 1

MUSI 354 - Integrated Music Methods Lab

A combined course designed to integrate general music, choral, and instrumental methods principles and lab teaching experiences for students in the Music Methods Block.

Prerequisites & Notes

Prerequisite: Admission to Teacher Candidacy Required

Co-requisites: MUSI 334 Vocal & Choral Methods; MUSI 335 General Music Methods; MUSI 336 Instrumental Methods; MUSI 353 Methods Block Field Experience

Credits: 1

MUSI 359 - History of Music I

A survey of musical styles from the ages of classical Greece and Rome through the Baroque period. Important composers and their literature will be discussed in relation to artistic, social, political, and economic conditions of their period. A reading knowledge of music is essential.

Prerequisites & Notes

MUSI 151

Credits: 3

MUSI 360 - Keyboard Improvisation

Melody harmonization and improvisation at the keyboard in 20th century popular and jazz styles. One class meeting and one laboratory session each week.

Prerequisites & Notes

MUSI 235 or applied equivalent

Credits: 1

MUSI 361 - Instrumental Improvisation

This course teaches the basic concepts of improvisation, chord notation and chord styles in popular and jazz music styles. Open to all instrumentalists. One class meeting and one laboratory session per week.

Prerequisites & Notes

MUSI 254 or permission of the instructor

Credits: 1

MUSI 365 - Applied Performance Voice

Applied lessons for the Bachelor of Music in Performance student. One lesson and 15 hours of practice each week are required for three credits. Applied lessons beyond degree requirements will be granted upon faculty availability. MUSI 165, 265, 365 may each be taken two times for a total of 18 credits; MUSI 465 may be taken four times for a total of 12 credits.

Prerequisites & Notes

Prerequisite: Passed the Musicianship Health Competency OR "C" or higher in MUSI 203.

Audition

Credits: 3

MUSI 366 - Applied Performance Piano

Applied lessons for the Bachelor of Music in Performance student. One lesson and 15 hours of practice each week are required for three credits. Applied lessons beyond degree requirements will be granted upon faculty availability. MUSI 166, 266, 366 may each be taken two times for a total of 18 credits; MUSI 466 may be taken four times for a total of 12 credits.

Prerequisites & Notes

Prerequisite: Passed the Musicianship Health Competency OR "C" or higher in MUSI 203.

Audition.

Credits: 3

MUSI 367 - Applied Performance Strings

Applied lessons for the Bachelor of Music in Performance student. One lesson and 15 hours of practice each week are required for three credits. Applied lessons beyond degree requirements will be granted upon faculty availability. MUSI 167, 267, 367 may each be taken two times for a total of 18 credits; MUSI 467 may be taken four times for a total of 12 credits.

Prerequisites & Notes

Prerequisite: Passed the Musicianship Health Competency OR "C" or higher in MUSI 203.

Audition.

Credits: 3

MUSI 368 - Applied Performance Woodwinds

Applied lessons for the Bachelor of Music in Performance student. One lesson and 15 hours of practice each week are required for three credits. Applied lessons beyond degree requirements will be granted upon faculty availability. MUSI 168, 268, 368 may be taken two times for a total of 18 credits; MUSI 468 may be taken four times for a total of 12 credits.

Prerequisites & Notes

Prerequisite: Passed the Musicianship Health Competency OR "C" or higher in MUSI 203.
Audition.

Credits: 3

MUSI 369 - Applied Performance Brass

Applied lessons for the Bachelor of Music in Performance student. One lesson and 15 hours of practice each week are required for three credits. Applied lessons beyond degree requirements will be granted upon faculty availability. MUSI 169, 269, 369 may each be taken two times for a total of 18 credits; MUSI 469 may be taken four times for a total of 12 credits.

Prerequisites & Notes

Prerequisite: Passed the Musicianship Health Competency OR "C" or higher in MUSI 203.
Audition.

Credits: 3

MUSI 370 - Applied Performance Percussion

Applied lessons for the Bachelor of Music in Performance student. One lesson and 15 hours of practice each week are required for three credits. Applied lessons beyond degree requirements will be granted upon faculty availability. MUSI 170, 270 and 370 may each be taken two times for a total of 18 credits; MUSI 470 may be taken four times for a total of 12 credits.

Prerequisites & Notes

Prerequisite: Passed the Musicianship Health Competency OR "C" or higher in MUSI 203.
Audition.

Credits: 3

MUSI 373 - History of Music II

This course examines the music and culture from the period of the Rococo through the 19th century. Lectures, readings, performances and listening sessions develop the student's musical understanding of the period. A reading knowledge of music is essential.

Prerequisites & Notes

MUSI 151

Credits: 3

MUSI 374 - Woodwind Methods

A study of the fundamental concepts needed to play and teach beginning instruments of the woodwind family and the factors peculiar to each instrument (flute, oboe, clarinet, bassoon and saxophone). Students must register for MUSI

375 concurrently with this course to complete field experience in the public schools as part of the requirements of this course.

Prerequisites & Notes

Co requisite MUSI 375

Accepted into Teacher Candidacy

Credits: 1

MUSI 375 - Woodwind Methods Field Experience

In this course, students will complete field experience with a focus on teaching individual and/or group instrumental lessons in the public schools, supervised by university faculty who are certified music educators.

Prerequisites & Notes

Acceptance into Teacher Candidacy.

Co requisite MUSI 374

Credits: 1

MUSI 376 - Flute, Oboe, & Bassoon Methods

A study of the fundamental concepts and skills needed to play and teach flute, oboe, and bassoon to homogeneous and heterogeneous instrument groups in pre-K-12 instrumental music education setting. This includes the integration and application of national and state standards for music education.

Prerequisites & Notes

Pre-requisites: Admission to Teacher Candidacy required

Co-requisites: MUSI 375: Woodwind Methods Field Experience

Credits: 2

MUSI 377 - High Brass Methods

A study of the fundamental concepts and skills needed to play and teach trumpet and French horn to homogeneous and heterogeneous instrument groups in pre-K-12 instrumental music education setting. This includes the integration and application of national and state standards for music education.

Credits: 2

MUSI 379 - Applied Piano

With the approval of the applied music teacher, lessons are available in standard piano. Materials studied will depend on the students' background and ability. Normally one lesson and five hours of practice each week are required.

Prerequisites & Notes

Prerequisite: Passed the Musicianship Health Competency OR "C" or higher in MUSI 203.

Credits: 1

MUSI 381 - Applied Voice

With the approval of the applied music teacher, lessons are available in standard voice. Materials studied will depend on the students' background and ability. Normally one lesson and five hours of practice each week are required.

Prerequisites & Notes

Prerequisite: Passed the Musicianship Health Competency OR "C" or higher in MUSI 203.

Credits: 1

MUSI 382 - Applied Strings

With the approval of the applied music teacher, lessons are available in standard string instruments. Materials studied will depend on the students' background and ability. Normally one lesson and five hours of practice each week are required.

Prerequisites & Notes

Prerequisite: Passed the Musicianship Health Competency OR "C" or higher in MUSI 203.

Credits: 1

MUSI 383 - Applied Brass

With the approval of the applied music teacher, lessons are available in standard brass instruments. Materials studied will depend on the students' background and ability. Normally one lesson and five hours of practice each week are required.

Prerequisites & Notes

Prerequisite: Passed the Musicianship Health Competency OR "C" or higher in MUSI 203.

Credits: 1

MUSI 384 - Applied Woodwinds

With the approval of the applied music teacher, lessons are available in standard woodwind instruments. Materials studied will depend on the students' background and ability. Normally one lesson and five hours of practice each week are required.

Prerequisites & Notes

Prerequisite: Passed the Musicianship Health Competency OR "C" or higher in MUSI 203.

Credits: 1

MUSI 385 - Applied Percussion

With the approval of the applied music teacher, lessons are available in standard percussion instruments. Materials studied will depend on the students' background and ability. Normally one lesson and five hours of practice each week are required.

Prerequisites & Notes

Prerequisite: Passed the Musicianship Health Competency OR "C" or higher in MUSI 203.

Credits: 1

MUSI 387 - Applied Counterpoint I

This study and practice of writing music according to contrapuntal theory of the 16th century. Course may be repeated for up to 3 credits.

Prerequisites & Notes

MUSI 255

Credits: 1

MUSI 388 - Applied Counterpoint II

The study and practice of writing music according to contrapuntal theory of the 18th century. Course may be repeated for up to 3 credits.

Prerequisites & Notes

MUSI 255

Credits: 1

MUSI 389 - Applied Composition

Compositional techniques relative to the student's interest will be studied through an analysis of works by major composers. Although no definite idiom is prescribed, contemporary techniques are encouraged. May be repeated for up to three credits.

Prerequisites & Notes

MUSI 255 or permission of the instructor

Credits: 1

MUSI 390 - Experimental

A unique and specifically focused course within the general purview of a department which intends to offer it on a "one time only" basis and not as a permanent part of the department's curriculum.

MUSI 391 - Applied Electronic Composition

A course designed to present the elements involved in electronic composition. The student will compose using magnetic tape, computer, and synthesizer. Course may be repeated for up to 3 credits.

Prerequisites & Notes

MUSI 255 or 352

Credits: 1

MUSI 392 - Tuba-Euphonium Ensemble

The SRU Tuba-Euphonium Ensemble is comprised of tuba and euphonium players who rehearse and perform a variety of music written for tuba-euphonium ensemble. This is open to all students regardless of major or area of emphasis. One to two credits for every semester of satisfactory participation is granted for this music performance group. The course may be repeated up to 10 times. Additional repeats are possible with a waiver from the department chairperson. The ensemble is also available without credit.

Credits: 1-2

MUSI 393 - Jazz Lab Band

The SRU Jazz Lab Band is a rehearsal ensemble that performs one concert per academic semester. The group does require an audition which takes place in the first week of the Fall semester. If openings occur in the Spring semester, the director will hold an audition for the open seats only. The ensemble rehearses big band literature from every stylistic period in jazz history. The focus of the course is on developing sight-reading, jazz performance practice and techniques, stylistic interpretation, foundational ensemble techniques, jazz band rehearsal techniques, and exposure to the literature, history, and composers of jazz music. This is open to all students regardless of major or area of emphasis. One to two credits for every semester of satisfactory participation is granted for this music performance group. The course may be repeated up to 10 times. Additional repeats are possible with a waiver from the department chairperson. The ensemble is also available without credit.

Credits: 1-2

MUSI 394 - World Percussion Ensemble

The SRU World Percussion Ensemble rehearses and performs the percussion music of cultures outside of Western Europe and the United States, concentrating on, but not exclusive to, the Caribbean (Trinidad and Tobago, Cuba, The Dominican Republic, and Puerto Rico), Asia (Japan, India, and Korea), South America (Brazil), and West Africa. Students learn the instruments, techniques, some choreography (when appropriate), and musical styles in multiple genres for at least one public performance each academic semester. The ensemble rehearses and performs on authentic instruments (whenever possible) or modern, commercially available substitutes. This is open to all students regardless of major or area of emphasis. One to two credits for every semester of satisfactory participation is granted for this music performance group. The course may be repeated up to 10 times. Additional repeats are possible with a waiver from the department chairperson. The ensemble is also available without credit.

Credits: 1-2

MUSI 395 - Workshop

A workshop is a program which is usually of short duration, narrow in scope, often non-traditional in content and format, and on a timely topic.

MUSI 396 - Winter Guard

The Slippery Rock University Winter Guard is the indoor color guard performing ensemble. In this performing ensemble, students will combine the use of flags, sabers, mock rifles, and other equipment, as well as dance and interpretive movement, in shows for public performance and competition. Held in the spring semester the group performs in competition as part of the indoor marching arts circuit as well as for campus and community events. The course may be repeated up to 5 times. Additional repeats are possible with a waiver from the department chairperson.

Prerequisites & Notes

Audition with instructor

Credits: 1-2

MUSI 398 - Selected Topic

A **Selected Topics** course is a normal, departmental offering which is directly related to the discipline, but because of its specialized nature, may not be able to be offered on a yearly basis by the department.

MUSI 399 - Diction for Singers II

In this study of language diction for singers, students will continue the study of the International Phonetic Alphabet and apply it to the singing of German and French art songs. The course is open to all voice majors.

Prerequisites & Notes

MUSI 299 with grade of C or better

Credits: 1-2

MUSI 402 - Teaching General Music Through Distance Education

This course is designed to provide students with the knowledge and skills necessary to effectively teach general music through distance or cyber education.

Prerequisites & Notes

PE 302 with a grade of C or better; and

PE 303 with a grade of C or better

Credits: 3

MUSI 403 - Teaching Music Performance through Distance Education

This course is designed to provide students with the knowledge and skills necessary to effectively teach music performance through distance or cyber education.

Prerequisites & Notes

PE 302 with a grade of C or better; and

PE 303 with a grade of C or better

Credits: 3

MUSI 404 - Field Experience Immersion in Music

In this course, students will participate in field experience through observing, assisting and teaching while being immersed in the culture of a different population. Travel expenses, which may include lodging, airfare, meals and other expenses, will be required as part of this course.

Prerequisites & Notes

Admission to Teacher Candidacy

Can be repeated one time.

Credits: 1

MUSI 406 - Advanced Conducting

In this course, students will develop advanced skills of conducting instrumental and vocal ensembles, including but not limited to: expanding technique beyond stationary focal point conducting to variable focal point conducting, developing gestural vocabulary guided by the Laban Method and developing advanced score study and analysis.

Prerequisites & Notes

MUSI 206 with a grade of C or better

Credits: 1

MUSI 407 - Choral Rehearsal Techniques

In this course for music education majors, students will analyze and conduct beginning and intermediate musical scores for choir. The student conductor will identify performance errors and learn to use various rehearsal techniques to improve the ensemble's performance. Students will also survey and learn performance practice for choral literature of all historical stylistic periods, and discuss numerous aspects of choral pedagogy, such as designing curriculum for and administering a choral program.

Prerequisites & Notes

Co-Requisite: MUSI 339

Pre-Requisite:

MUSI 406 with a grade of C or better; and

(MUSI 115 or MUSI 215 or MUSI 315 or MUSI 415) with a grade of C or better

Credits: 1

MUSI 408 - Professional Preparation for the Music Job Search

In this class, which is designed for music majors, students will create a resume, cover letter, and a portfolio; will engage in interview practice; and will form strategies for approaching the job search. The course is intended to be taken by students who will be entering the job search soon.

Credits: 1

MUSI 409 - Jazz Combo

Students will meet weekly with the appropriate faculty member to work on jazz performance in the small group (combo) setting. Study of phrasing, articulation, jazz theory, improvisation, and other jazz performance practices will be addressed. Students will be auditioned at the beginning of the semester for placement. At least one public performance will be given per semester. One hour of rehearsal time per week. One credit for every semester of satisfactory participation is granted for this music performance group. The course may be repeated up to 10 times. Additional repeats are possible with a waiver from the department chairperson. The ensemble is also available without credit.

Credits: 1

MUSI 413 - Saxophone Quartet

Students will meet weekly with the appropriate faculty member to work on literature selected for their performance ability level. Study of phrasing, articulation, balance, blend, intonation, and other performance practices will be addressed. Students will be auditioned at the beginning of the semester for placement. At least one public performance will be given per semester. Two hours per week rehearsal time. One to two credits for every semester of satisfactory participation is granted for this music performance group. The course may be repeated up to 10 times. Additional repeats are possible with a waiver from the department chairperson. The ensemble is also available without credit.

Credits: 1-2

MUSI 414 - Symphonic Wind Ensemble

Symphonic Wind Ensemble: A chamber ensemble composed of select musicians chosen by audition, performing contemporary literature as well as transcriptions for winds and percussion. Four and a half hours of week rehearsal time. One to four credits for every semester of satisfactory participation is granted for this music performance group. The course may be repeated up to 10 times. Additional repeats are possible with a waiver from the department chairperson. The ensemble is also available without credit.

Prerequisites & Notes

Audition with the director of the Symphonic Wind Ensemble and the instrumental faculty

Credits: 1-4

MUSI 415 - Concert Choir

Auditioned mixed chorus of 50-70 singers that studies and performs a variety of music from Renaissance to 21st century, classical to contemporary, a cappella and music accompanied by piano, chamber groups, and symphonic ensembles. Three hours per week rehearsal time. Multiple concerts are presented both on and off campus and on periodic tours. One to three credits for every semester of satisfactory participation is granted for this music performance group. The course may be repeated up to 10 times. Additional repeats are possible with a waiver from the department chairperson. Entrance is by successful audition, held the first week of classes every semester; contact the instructor for information. The ensemble is also available without credit.

Credits: 1-3

MUSI 416 - Women's Choir

An ensemble of 30-40 women who perform choral music especially composed for female voices. This ensemble performs traditional and modern repertoire, with and without accompaniment. Concerts are presented on campus and on tours. Two and one-half hours per week rehearsal time. Multiple concerts are presented both on and off campus and on periodic tours. One to two credits for every semester of satisfactory participation is granted for this music

performance group. The course may be repeated up to 10 times. Additional repeats are possible with a waiver from the department chairperson. No audition is required. The ensemble is also available without credit.

Credits: 1-2

MUSI 417 - Chamber Singers

An elite chamber choir of 16-24 outstanding singers who perform challenging repertoire with a greater emphasis on a cappella music. Members of this group are expected to display initiative to prepare music to the highest possible level of their ability. Two and one-half hours per week rehearsal time. One or two credits for every semester of satisfactory participation is granted for this music performance group. The course may be repeated up to 10 times. Additional repeats are possible with a waiver from the department chairperson. Entrance is by successful audition, held the first week of classes every semester; contact the instructor for information. The ensemble is also available without credit.

Prerequisites & Notes

Co-requisite: MUSI 415

Credits: 1-2

MUSI 418 - Marching Pride

The Marching Pride performs during the half time at football games, both home and away, and for other special events. Much of its music is specially arranged. Open to all students. Six hours a week rehearsal during the football season. One to six credits for every semester of satisfactory participation is granted for this music performance group. The course may be repeated up to 6 times. Additional repeats are possible with a waiver from the department chairperson. The ensemble is also available without credit.

Credits: 1-6

MUSI 419 - Concert Band

The Concert Band members are carefully selected to provide a balanced instrumentation of the best players. Music written for concert band is the main repertoire. Concerts on campus. Four hours a week rehearsal time. One to four credits for every semester of satisfactory participation is granted for this music performance group. The course may be repeated up to 5 times. Additional repeats are possible with a waiver from the department chairperson. The ensemble is also available without credit.

Credits: 1-4

MUSI 420 - Jazz Ensemble

The SRU Jazz Ensemble performs jazz literature from all eras of jazz history including big band, bop, hard bop, fusion and contemporary. This ensemble often performs with guest artists of national and international stature, both on and off campus. Membership in this ensemble requires an audition. Three hours and forty-five minutes of rehearsal per week. One to three credits for every semester of satisfactory participation is granted for this music performance group. The course may be repeated up to 10 times. Additional repeats are possible with a waiver from the department chairperson. The ensemble is also available without credit.

Credits: 1-3

MUSI 421 - Orchestra

The orchestra is a string ensemble, with winds and percussion added when needed, which performs music from the orchestral repertoire. Admission by audition. Four hours a week rehearsal time. One to four credits for every semester of satisfactory participation is granted for this music performance group. The course may be repeated up to 10 times. Additional repeats are possible with a waiver from the department chairperson. The ensemble is also available without credit.

Credits: 1-4

MUSI 422 - Chamber String Ensemble

The Chamber String Ensemble is a small ensemble selected for the study and performance of chamber music written for strings. Two hours a week rehearsal time. One to two credits for every semester of satisfactory participation is granted for this music performance group. The course may be repeated up to 10 times. Additional repeats are possible with a waiver from the department chairperson. The ensemble is also available without credit.

Credits: 1-2

MUSI 423 - Brass Ensemble

The university's Brass Ensemble is a select ensemble of brass (and percussion) players who study and perform music from all historical periods. Both large brass choir works and small chamber brass works are performed. The ensemble performs on and off campus. Two hours a week rehearsal time. One to two credits for every semester of satisfactory participation is granted for this music performance group. The course may be repeated up to 10 times. Additional repeats are possible with a waiver from the department chairperson. The ensemble is also available without credit.

Credits: 1-2

MUSI 424 - Woodwind Ensemble

The Woodwind Ensemble is a small select ensemble of woodwind players who study and perform music for woodwinds from all historical periods. Three hours a week rehearsal time. One credit for every semester of satisfactory participation is granted for this music performance group, with a maximum allowance of ten credits in any one music organization. Additional credits are possible with a waiver from the departmental chairperson. The ensemble is also available without credit.

Credits: 1

MUSI 425 - Percussion

This small select ensemble of percussionists studies and performs music composed and transcribed for both percussion and mallet ensembles. Two hours a week rehearsal time. One to two credits for every semester of satisfactory participation is granted for this music performance group. The course may be repeated up to 10 times. Additional repeats are possible with a waiver from the department chairperson. The ensemble is also available without credit.

Credits: 1-2

MUSI 426 - Flute Choir

The SRU Flute Choir is made up of a select group of flutists who will rehearse and perform a variety of music written for flute ensemble. Audition required. Two and a half hours a week rehearsal time. One to two credits for every

semester of satisfactory participation is granted for this music performance group. The course may be repeated up to 10 times. Additional repeats are possible with a waiver from the department chairperson. The ensemble is also available without credit.

Credits: 1-2

MUSI 428 - Music Therapy Advanced Topics

Seminar in professional ethics, disability studies, race theory, and feminism.

Prerequisites & Notes

MUSI 327, 330

Credits: 3

MUSI 431 - Pedagogy

Acquaintance with the philosophy, theories, techniques, materials, and practical applications of teaching applied music on the student's major instrument of study. Laboratory experience under the supervision of the instructor will be an integral part of the course.

Prerequisites & Notes

Four semesters of applied major lessons or the equivalent

Credits: 1

MUSI 432 - Clinical Integration

A supervised clinical experience allowing the music therapy student practical experience in a variety of community health care agencies and educational settings.

Prerequisites & Notes

MUSI 330

Credits: 0 or 1

MUSI 433 - Clinical Integration

A supervised clinical experience allowing the music therapy student practical experience in a variety of community health care agencies and educational settings.

Prerequisites & Notes

The student may enroll in this course only when five semesters of music therapy field experience have successfully been completed and with permission of the instructor

Credits: 1

MUSI 437 - Opera Performance

Performance of scenes, arias, or full operas, taking into consideration the interest and skill of each student. Four hours of rehearsal per week; more rehearsal as needed in weeks leading to performance. One to four credits for every

semester of satisfactory participation is granted for this music performance group. Additional repeats are possible with a waiver from the department chairperson. Each course number may be repeated up to five times.

Prerequisites & Notes

Declared Voice major or permission of the instructor.

Opera Performance: This ensemble is open to all students through audition. Performances will typically alternate each semester between opera scenes chosen specifically to develop the skills of each student and a fully staged opera.

Performances are both on and off-campus.

Credits: 1-4

MUSI 440 - Music Therapy for Adult Clients

Application of music therapy techniques and materials in all areas of mental health, corrections, and special education. Emphasis is placed on adult populations and group dynamics.

Prerequisites & Notes

MUSI 312, 432 or permission of the instructor and PSYC 276

Credits: 3

MUSI 450 - Music Therapy Internship

A continuous six-month internship in an approved music therapy program under the direction of a Board Certified Music Therapist. Required of all candidates for graduation.

Prerequisites & Notes

All coursework must be completed

Credits: 1 to 12

MUSI 455 - Student Teaching - Music

Under the guidance of a cooperating teacher and university supervisor, students engage in two eight-week assignments on a full-time basis in specified school districts and attend scheduled seminars. Supervisors assign additional requirements.

Prerequisites & Notes

All program coursework must be completed

Credits: 12

MUSI 465 - Applied Performance Voice

Applied lessons for the Bachelor of Music in Performance student. One lesson and 15 hours of practice each week are required for three credits. Applied lessons beyond degree requirements will be granted upon faculty availability. MUSI 165, 265, 365 may each be taken two times for a total of 18 credits; MUSI 465 may be taken four times for a total of 12 credits.

Prerequisites & Notes

Prerequisite: Passed the Musicianship Health Competency OR "C" or higher in MUSI 203.

Audition.

Credits: 3

MUSI 466 - Applied Performance Piano

Applied lessons for the Bachelor of Music in Performance student. One lesson and 15 hours of practice each week are required for three credits. Applied lessons beyond degree requirements will be granted upon faculty availability. MUSI 166, 266, 366 may each be taken two times for a total of 18 credits; MUSI 466 may be taken four times for a total of 12 credits.

Prerequisites & Notes

Prerequisite: Passed the Musicianship Health Competency OR "C" or higher in MUSI 203.

Audition.

Credits: 3

MUSI 467 - Applied Performance Strings

Applied lessons for the Bachelor of Music in Performance student. One lesson and 15 hours of practice each week are required for three credits. Applied lessons beyond degree requirements will be granted upon faculty availability. MUSI 167, 267, 367 may each be taken two times for a total of 18 credits; MUSI 467 may be taken four times for a total of 12 credits.

Prerequisites & Notes

Prerequisite: Passed the Musicianship Health Competency OR "C" or higher in MUSI 203.

Audition.

Credits: 3

MUSI 468 - Applied Performance Woodwinds

Applied lessons for the Bachelor of Music in Performance student. One lesson and 15 hours of practice each week are required for three credits. Applied lessons beyond degree requirements will be granted upon faculty availability. MUSI 168, 268, 368 may be taken two times for a total of 18 credits; MUSI 468 may be taken four times for a total of 12 credits.

Prerequisites & Notes

Prerequisite: Passed the Musicianship Health Competency OR "C" or higher in MUSI 203.

Audition.

Credits: 3

MUSI 469 - Applied Performance Brass

Applied lessons for the Bachelor of Music in Performance student. One lesson and 15 hours of practice each week are required for three credits. Applied lessons beyond degree requirements will be granted upon faculty availability. MUSI 169, 269, 369 may each be taken two times for a total of 18 credits; MUSI 469 may be taken four times for a total of 12 credits.

Prerequisites & Notes

Prerequisite: Passed the Musicianship Health Competency OR "C" or higher in MUSI 203.

Audition.

Credits: 3

MUSI 470 - Applied Performance Percussion

Applied lessons for the Bachelor of Music in Performance student. One lesson and 15 hours of practice each week are required for three credits. Applied lessons beyond degree requirements will be granted upon faculty availability. MUSI 170, 270 and 370 may each be taken two times for a total of 18 credits; MUSI 470 may be taken four times for a total of 12 credits.

Prerequisites & Notes

Prerequisite: Passed the Musicianship Health Competency OR "C" or higher in MUSI 203.

Audition.

Credits: 3

MUSI 473 - History of Music III

This course examines the musical events from approximately 1890 to the present. Lectures, readings, performances and listening sessions develop the students' musical understanding of the period. A reading knowledge of music is essential.

Prerequisites & Notes

MUSI 151

Credits: 3

MUSI 479 - Applied Piano

With the approval of the applied music teacher, lessons are available in standard piano. Materials studied will depend on the students' background and ability. Normally one lesson and five hours of practice each week are required.

Prerequisites & Notes

Prerequisite: Passed the Musicianship Health Competency OR "C" or higher in MUSI 203.

Credits: 1

MUSI 481 - Applied Voice

With the approval of the applied music teacher, lessons are available in standard voice. Materials studied will depend on the students' background and ability. Normally one lesson and five hours of practice each week are required.

Prerequisites & Notes

Prerequisite: Passed the Musicianship Health Competency OR "C" or higher in MUSI 203.

Credits: 1

MUSI 482 - Applied Strings

With the approval of the applied music teacher, lessons are available in standard string instruments. Materials studied will depend on the students' background and ability. Normally one lesson and five hours of practice each week are required.

Prerequisites & Notes

Prerequisite: Passed the Musicianship Health Competency OR "C" or higher in MUSI 203.

Credits: 1

MUSI 483 - Applied Brass

With the approval of the applied music teacher, lessons are available in standard brass instruments. Materials studied will depend on the students' background and ability. Normally one lesson and five hours of practice each week are required.

Prerequisites & Notes

Prerequisite: Passed the Musicianship Health Competency OR "C" or higher in MUSI 203.

Credits: 1

MUSI 484 - Applied Woodwinds

With the approval of the applied music teacher, lessons are available in standard woodwind instruments. Materials studied will depend on the students' background and ability. Normally one lesson and five hours of practice each week are required.

Prerequisites & Notes

Prerequisite: Passed the Musicianship Health Competency OR "C" or higher in MUSI 203.

Credits: 1

MUSI 485 - Applied Percussion

With the approval of the applied music teacher, lessons are available in standard percussion instruments. Materials studied will depend on the students' background and ability. Normally one lesson and five hours of practice each week are required.

Prerequisites & Notes

Prerequisite: Passed the Musicianship Health Competency OR "C" or higher in MUSI 203.

Credits: 1

MUSI 487 - Applied Counterpoint I

This study and practice of writing music according to contrapuntal theory of the 16th century. Course may be repeated for up to 3 credits.

Prerequisites & Notes

MUSI 255

Credits: 1

MUSI 488 - Applied Counterpoint II

The study and practice of writing music according to contrapuntal theory of the 18th century. Course may be repeated for up to 3 credits.

Prerequisites & Notes

MUSI 255

Credits: 1

MUSI 489 - Applied Composition

Compositional techniques relative to the student's interest will be studied through an analysis of works by major composers. Although no definite idiom is prescribed, contemporary techniques are encouraged. May be repeated for up to three credits.

Prerequisites & Notes

MUSI 255 or permission of the instructor

Credits: 1

MUSI 490 - Independent Study

Students have an opportunity to study selected areas in greater concentration under the direction of a music faculty. Independent Study courses give students the opportunity to pursue research and/or studies that are not part of the university's traditional course offerings. Students work one on one or in small groups with faculty guidance and are typically required to submit a final paper or project as determined by the supervising professor.

Prerequisites & Notes

Permission of the instructor, departmental chairperson and dean of the college where the study will be conducted

Credits: 1 to 3

MUSI 491 - Applied Electronic Composition

A course designed to present the elements involved in electronic composition. The student will compose using magnetic tape, computer, and synthesizer. Course may be repeated for up to 3 credits.

Prerequisites & Notes

MUSI 255 or 352

Credits: 1

MUSI 492 - Tuba-Euphonium Ensemble

The SRU Tuba-Euphonium Ensemble is comprised of tuba and euphonium players who rehearse and perform a variety of music written for tuba-euphonium ensemble. This is open to all students regardless of major or area of emphasis. One to two credits for every semester of satisfactory participation is granted for this music performance group. The course may be repeated up to 10 times. Additional repeats are possible with a waiver from the department chairperson. The ensemble is also available without credit.

Credits: 1-2

MUSI 493 - Jazz Lab Band

The SRU Jazz Lab Band is a rehearsal ensemble that performs one concert per academic semester. The group does require an audition which takes place in the first week of the Fall semester. If openings occur in the Spring semester, the director will hold an audition for the open seats only. The ensemble rehearses big band literature from every stylistic period in jazz history. The focus of the course is on developing sight-reading, jazz performance practice and techniques, stylistic interpretation, foundational ensemble techniques, jazz band rehearsal techniques, and exposure to the literature, history, and composers of jazz music. This is open to all students regardless of major or area of emphasis. One to two credits for every semester of satisfactory participation is granted for this music performance group. The course may be repeated up to 10 times. Additional repeats are possible with a waiver from the department chairperson. The ensemble is also available without credit.

Credits: 1-2

MUSI 494 - World Percussion Ensemble

The SRU World Percussion Ensemble rehearses and performs the percussion music of cultures outside of Western Europe and the United States, concentrating on, but not exclusive to, the Caribbean (Trinidad and Tobago, Cuba, The Dominican Republic, and Puerto Rico), Asia (Japan, India, and Korea), South America (Brazil), and West Africa. Students learn the instruments, techniques, some choreography (when appropriate), and musical styles in multiple genres for at least one public performance each academic semester. The ensemble rehearses and performs on authentic instruments (whenever possible) or modern, commercially available substitutes. This is open to all students regardless of major or area of emphasis. One to two credits for every semester of satisfactory participation is granted for this music performance group. The course may be repeated up to 10 times. Additional repeats are possible with a waiver from the department chairperson. The ensemble is also available without credit.

Credits: 1-2

MUSI 495 - Workshop

A workshop is a program which is usually of short duration, narrow in scope, often non-traditional in content and format, and on a timely topic.

MUSI 496 - Winter Guard

The Slippery Rock University Winter Guard is the indoor color guard performing ensemble. In this performing ensemble, students will combine the use of flags, sabers, mock rifles, and other equipment, as well as dance and interpretive movement, in shows for public performance and competition. Held in the spring semester the group performs in competition as part of the indoor marching arts circuit as well as for campus and community events. The course may be repeated up to 5 times. Additional repeats are possible with a waiver from the department chairperson.

Prerequisites & Notes

Audition with instructor

Credits: 1-2

MUSI 498 - Mozart and His Music

This unique course relates Mozart's life and music to the history, culture, and social conditions of the 18th century. There will be a classroom, but in reality, the entire city of Salzburg, where Mozart was born and lived, will be the true classroom. Students will explore not only the "birth house" of Mozart, but the Baroque and Rococo architecture, cathedrals, museums and ballrooms which had such profound influences on the young Wolfgang. The class will hear some of Mozart's music played on the original piano. Discussions will include what music meant in the 18th century and what it is and means today.

Prerequisites & Notes

None. Open to all, and taught in English.

Credits: 3

MUSI 499 - Applied Recital

The purpose of this course is to give the performance majors an opportunity to perform a full recital on their major instrument. It will be taken in addition to study in the student's major applied area. Course may be repeated up to two credits.

Credits: 1

NSM 390 - Clinical Experience

Course used as transfer from outside institution.

Credits: 32

NURS 139 - University Seminar

University Seminar serves as the entry point to the Slippery Rock University general education program. With its small seminar setting and strong faculty-student interaction, the course promotes intellectual inquiry, critical and creative thinking, and academic excellence. Through varied content, the course introduces students to academic discourse and information literacy while exploring topics such as diversity and inclusion and global awareness. This course will set students along the path to becoming engaged with issues and scholarship important to a 21st century education while they learn about themselves and their place in the world.

Credits: 3

NURS 190 - Experimental

A unique and specifically focused course within the general purview of a department which intends to offer it on a "one time only" basis and not as a permanent part of the department's curriculum.

Credits: 3

NURS 195 - Workshop

A workshop is a program which is usually of short duration, narrow in scope, often non-traditional in content and format, and on a timely topic.

Credits: 3

NURS 198 - Selected Topic

A **Selected Topics** course is a normal, departmental offering which is directly related to the discipline, but because of its specialized nature, may not be able to be offered on a yearly basis by the department.

Credits: 3

NURS 290 - Experimental

A unique and specifically focused course within the general purview of a department which intends to offer it on a "one time only" basis and not as a permanent part of the department's curriculum.

Credits: 3

NURS 295 - Workshop

A workshop is a program which is usually of short duration, narrow in scope, often non-traditional in content and format, and on a timely topic.

Credits: 3

NURS 298 - Selected Topic

A **Selected Topics** course is a normal, departmental offering which is directly related to the discipline, but because of its specialized nature, may not be able to be offered on a yearly basis by the department.

Credits: 3

NURS 311 - Introduction to Health Care Informatics

This course is designed to provide students with an opportunity to apply knowledge and skills from information science and computer science to the health care field. Emphasis will be on developing a basic understanding of how automation is used to manage information in healthcare. Topics covered include types of information systems used in healthcare, how to select and implement information systems, current developments in healthcare information systems, issues surrounding computers in health care. In this course the focus is on the computer as a tool for helping healthcare providers do their work.

Credits: 3

NURS 312 - Nursing in Transition

Nursing 312 examines professional role socialization from a historic, contemporary, and futuristic view. It enables the student to develop communication and technology skills necessary for success in a collegiate nursing program.

Prerequisites & Notes

Admission into the BSN program

Credits: 3

NURS 322 - The Teaching-Learning Process in Nursing

This course is designed for the registered nurse who desires greater knowledge and skill in assisting individuals, families, and groups to acquire health-related knowledge, skills, and values. The course provides opportunities from a conceptual and practical perspective to explore the dynamics that contribute to effective health education. Emphasis will be placed upon developing the nurses' abilities, confidence, and self-image as teachers.

Credits: 3

NURS 327 - Group Process for Nursing

Provides opportunities to develop leadership skills with groups for the purposes of maintaining, regaining or improving their levels of wellness. The focus is on the group as a system. Combined conceptual knowledge and practical skills needed to work effectively with health-related groups will be taught (3 credits theory)

Credits: 3

NURS 331 - Evidence Based Health Assessment and Promotion

This course emphasizes the complete health assessment, the nursing process, and its relationship to the prevention and early detection of disease in clients across the life span. This course reinforces the processes of health assessment: interviewing, history-taking, and physical assessment. Dominant models, theories and perspectives are used to explain health behaviors in relation to evidence-based health promotion and health education strategies. Students are expected to correlate health assessment and promotion with current evidence. This course includes assignments with computer simulated standardized patients. Incorporated throughout the course is the importance of communication and collaboration across culturally diverse populations.

Credits: 3

NURS 390 - Experimental

A unique and specifically focused course within the general purview of a department which intends to offer it on a “one time only” basis and not as a permanent part of the department’s curriculum.

Credits: 3

NURS 395 - Workshop

All academic departments list this workshop course. Please contact the individual department for more information. A workshop is a program which is usually of short duration, narrow in scope, often non-traditional in content and format, and on a timely topic.

Credits: 1 to 3

NURS 398 - Selected Topic

A **Selected Topics** course is a normal, departmental offering which is directly related to the discipline, but because of its specialized nature, may not be able to be offered on a yearly basis by the department.

Credits: 3

NURS 406 - Politics and Policy in Nursing

This course is designed to enhance the student’s understanding of health policy as it relates to professional nursing practice. Students will explore health care policy and the policy-making process at various levels of government, research the impact of special interest groups on policy, and learn effective strategies to interact with legislators as citizen lobbyists and/or members of professional nursing organizations.

Credits: 3

NURS 408 - Delivery of Nursing Care in a Managed Care Environment/Clinical

This course prepares students to understand managed health care delivery systems and their impact of delivery and practice patterns with emphasis on the delivery of nursing care.

Credits: 3

NURS 422 - Nursing Research

This course examines in-depth the role of research in the development and refinement of the nursing process and its relationship and contribution to the development of nursing science. The student becomes a more critical consumer of nursing research by developing beginning understanding of the principles associated with each major step of the research process and applying these to a group research exercise. Students conduct a computer-assisted search of the literature as well as to apply the concepts derived from beginning statistics.

Prerequisites & Notes

NURS 311 and NURS 312

Credits: 3

NURS 426 - Community and Public Health Nursing

In this course the focus is on the community as the client. Theories, models, and concepts from community and public health nursing are examined. A course project, the Community Assessment, provides students the opportunity to complete and analyze a community assessment.

Prerequisites & Notes

NURS 311 and 327

Credits: 3

NURS 429 - Financial Management for Nursing Case Managers

This course provides students with content related to current issues, tools (i.e. Excel spreadsheet), and regulation necessary to function as a nursing case manager.

Credits: 3

NURS 430 - Leadership in Nursing and Healthcare Systems

This course is designed to provide students with a working knowledge of concepts and processes of leadership theory and practice in nursing and healthcare systems. Students successfully completing this course will be able to identify the personal and situational factors affecting leadership performance and adapt their behavior to become more effective leaders.

Credits: 3

NURS 431 - Leadership and Management in Nursing

This course focuses on the theory for leadership and management roles, leadership theories, and the ethical decision-making process in the delivery of health care to diverse populations. The student will apply concepts gleaned from previous courses to enhance professional nursing practice. Nursing leadership and management practices will be analyzed with an emphasis on planning, delivering, and evaluating cost-effective quality care. Additionally, emphasis will be placed on interdisciplinary collaboration and communication, evidence-based practice, conflict resolution, and concepts of patient safety.

Prerequisites & Notes

Co-requisite: NURS 432

Prerequisite: NURS 311, 312, 331, 422, 426 (minimum C)

Credits: 4

NURS 432 - Practice Experience for Leadership and Management in Nursing

As a practice experience, the student will apply concepts gleaned from previous courses and NURS 431 to enhance professional nursing practice. Nursing leadership and management theories will be applied within the practice environment by emphasizing planning, delivering, managing, and evaluating cost-effective quality care. Emphasis will be placed on interdisciplinary collaboration, evidence-based practice, and concepts of patient safety.

Prerequisites & Notes

Co-requisite: NURS 431

Prerequisite: NURS 311, 312, 331, 422, 426 (minimum grade C)

Credits: 2

NURS 433 - Innovative Technology for Healthy Communities

This course focuses on consumer health informatics and technology which explores how innovative technology can be used to improve individual's health within various community settings. Topics include the mode of delivery of consumer health information such as Internet-based technology; shared access to individual's private health information; quality of consumer health information via social media; and health and information literacy seeking behavior. Finally, various types of innovative technology used within the home environment or within a healthcare setting to support consumers within a home environment will be explored.

Credits: 3

NURS 440 - Nursing Case Management in Today's Healthcare Environment

This course is designed to prepare students to understand the case management responsibilities which include planning, coordinating, and managing care of consumers within a health care system. Students will learn to use evidence based pathways in making decisions, planning care and finding the best ways to deliver safe, quality and culturally appropriate care and controlling increasing health care costs. Identify innovative technologies to measure case management effectiveness and outcomes.

Credits: 3

NURS 450 - Health Care Informatics Internship

Provides opportunity to apply theory and develop competencies in health care informatics through a work-related experience in an appropriate health related enterprise.

Prerequisites & Notes

Cumulative and major GPA 2.500 and approval of minor or certificate advisor

Credits: 1 to 12

NURS 451 - Internship in Correctional Nursing

Provides opportunity to apply theory and develop competencies in correctional nursing through a work-related experience in an appropriate correctional institution.

Prerequisites & Notes

Must be a registered nurse enrolled in the criminology minor with a cumulative and major Q.P.A. 2.500. Any exceptions to these prerequisites require the permission of the chairs of the social work, criminology and criminal justice department and the nursing department.

Credits: 1 to 6

NURS 490 - Independent Study

Independent Study courses give students the opportunity to pursue research and/or studies that are not part of the university's traditional course offerings. Students work one on one or in small groups with faculty guidance and are

typically required to submit a final paper or project as determined by the supervising professor.

Credits: 3

NURS 495 - Workshop

A workshop is a program which is usually of short duration, narrow in scope, often non-traditional in content and format, and on a timely topic.

Credits: 3

NURS 498 - Selected Topics

Elective nursing courses whose purpose is to deepen or broaden the student's perspective on aspects of professional nursing practice. Each course includes an exploration of nursing roles and nursing research related to such topics as: Trends in Nursing Care of Children, Nursing Care of the Older Adult, Nursing and Contemporary Women's Health Issues.

A **Selected Topics** course is a normal, departmental offering which is directly related to the discipline, but because of its specialized nature, may not be able to be offered on a yearly basis by the department.

Credits: 3

NURS 500 - Developing Transcultural Awareness Among Health Professionals

This course will examine cultural competence issues related to health professions. Students will develop their knowledge, personal awareness of, and comfort with cultural diversity through an international travel experience during which they will participate in a professional conference, interact with professional and students from other countries. During the course students will participate in seminars and maintain a reflective journal about their experience and developing awareness.

Prerequisites & Notes

Students participating in this experience must hold a valid passport to participate in the travel portion of the course.

Credits: 3

NURS 510 - Cardiovascular Function: Assessment and Treatment

Emphasis is placed upon the pathophysiological changes in coronary artery disease and the major mechanisms used to diagnose, monitor, and treat the alterations. Normal and abnormal EKG interpretation and medical and surgical management are presented. The role of a health team approach is addressed.

Prerequisites & Notes

permission of the instructor

Credits: 3

NURS 511 - Advanced Healthcare Informatics

This course is designed to provide students with an in-depth analysis of healthcare informatics. Emphasis will be on developing a comprehensive understanding of the use of information systems in health care. Topics covered include health care data, information and knowledge, health care classifications and coding systems, and use of ethical and legal principles with information systems. In this course the focus is on applying computer, information, and health care concepts to real world problems in health care.

Prerequisites & Notes

NURS 311 or permission of the instructor

Credits: 3

NURS 516 - Nursing for Palliative and End-of-Life Issues

This course is designed to enhance the student's understanding of Palliative and End-of-Life Nursing as it relates to professional nursing practice. Students will explore various societal influences on death as well as physical and mental aspects of dying while emphasizing the need to care for the "whole person" in palliative and end-of-life caregiving.

Prerequisites & Notes

None

Credits: 3

NURS 517 - Social Media and Healthcare

This course is designed to enhance the student's understanding of social media and its influence on current, professional healthcare practice. Students will explore various forms of social media, the internet and electronic devices to inform, support and empower the consumer in adhering to a healthier lifestyle, while enabling health care professionals to educate patients and consumers to effectively use available social media tools in managing health and health care.

Prerequisites & Notes

None

Credits: 3

NURS 595 - Workshop

A workshop is a program which is usually of short duration, narrow in scope, often non-traditional in content and format, and on a timely topic.

Credits: 3

PCRM 104 - Foundations in Sustainability

This course will provide a foundation of basic concepts associated with environmental and its associated cultural sustainability. Emphasis will be placed on the interdependence of our natural resources to achieve sustainability in a cultural context. Course development will move from individual environmental ethics and personal actions to civic responsibility and global perceptions.

Credits: 3

PCRM 105 - Leisure-Centered Living

The constructive use of leisure and education for leisure are essential tools for a person's successful growth and development. Leisure-centered living is designed to help students investigate, evaluate, and plan leisure/play as a basic human need and necessity for well-being.

Credits: 3

PCRM 110 - Foundations of Parks and Recreation

This course is designed to provide the student with the conceptual foundations of recreation and leisure for all populations and settings. The course includes a historical and philosophical background of the leisure movement including an understanding of the psychological, sociological and physiological implications, as well as the impact of technological, economic and political developments and their impact on recreation and leisure in a contemporary society. In addition, the elements of recreation and leisure will be reviewed through the lifespan and with regard to their relationship to attitudes, values, behaviors and the natural environment. Students will be introduced to the standards of the profession and professional expectations will be covered.

Credits: 3

PCRM 111 - Introduction to Park and Resource Management

This course is a sequel to Foundations of Parks and Recreation and will continue to examine the historical and philosophical background of the leisure movement with regard to recreation organizations and services. Professional preparation in relation to perceived and actual needs concerning risk management, research and evaluation, information technology, ecological considerations and sustainable planning and management practices in the parks and recreation field will also be explored.

Credits: 3

PCRM 139 - University Seminar

University Seminar serves as the entry point to the Slippery Rock University general education program. With its small seminar setting and strong faculty-student interaction, the course promotes intellectual inquiry, critical and creative thinking, and academic excellence. Through varied content, the course introduces students to academic discourse and information literacy while exploring topics such as diversity and inclusion and global awareness. This course will set students along the path to becoming engaged with issues and scholarship important to a 21st century education while they learn about themselves and their place in the world.

Credits: 3

PCRM 190 - Experimental

A unique and specifically focused course within the general purview of a department which intends to offer it on a "one time only" basis and not as a permanent part of the department's curriculum.

Credits: 3

PCRM 195 - Workshop

A workshop is a program which is usually of short duration, narrow in scope, often non-traditional in content and format, and on a timely topic.

Prerequisites & Notes

Varies

Credits: 3

PCRM 198 - Selected Topics

A **Selected Topics** course is a normal, departmental offering which is directly related to the discipline, but because of its specialized nature, may not be able to be offered on a yearly basis by the department.

Prerequisites & Notes

Varies

Credits: 3

PCRM 204 - Environmental Communication

In this course, students will learn about the theoretical and applied concepts that guide the discipline of environmental communication including rhetoric & discourse, media, public participation, social marketing, collaboration & conflict resolution, risk communication, and popculture. Students will demonstrate understanding and show application of materials for successful environmental communication in a variety of protected areas and conservation settings.

Prerequisites & Notes

None.

Credits: 3

PCRM 210 - Resources for Outdoor Programming

The outdoors was the first classroom and many lessons are still taught in and for the outdoors. This course is designed to provide anyone working in a recreational or park setting with methods and materials to use to achieve a variety of educational and recreational goals. Emphasis will be placed on identifying and using existing instructional materials, in addition to developing personal materials and lessons for outdoor programming.

Credits: 3

PCRM 211 - Outdoor Leadership

This course is a study of the principles and practices essential for outdoor leaders with emphasis on the development of KSAs to lead groups into the wild outdoors.

Credits: 3

PCRM 214 - Parks and Recreation Planning

This course provides a comprehensive introduction to the field of recreation planning. Class sessions will focus on a variety of planning approaches and tools, which are utilized throughout the field of recreation. Students will gain familiarity with these planning tools as they engage in an abbreviated campus-wide study focused on the availability of recreational resources to SRU students.

Prerequisites & Notes

PCRM110

Credits: 3

PCRM 251 - Field Experience

Opportunities for basic practical experience in a variety of park and recreation/environmental education settings. May be repeated up to 3 times.

Prerequisites & Notes

Permission of the instructor

Credits: 1

PCRM 271 - Law Enforcement Firearms

This course provides basic orientation to and qualification with the approved handgun and familiarization with the 12 gauge shotgun including safety and "shoot-no shoot" situations.

Credits: 3

PCRM 290 - Experimental

A unique and specifically focused course within the general purview of a department which intends to offer it on a "one time only" basis and not as a permanent part of the department's curriculum.

Credits: 3

PCRM 295 - Workshop

A workshop is a program which is usually of short duration, narrow in scope, often non-traditional in content and format, and on a timely topic.

Credits: 3

PCRM 298 - Selected Topics

A **Selected Topics** course is a normal, departmental offering which is directly related to the discipline, but because of its specialized nature, may not be able to be offered on a yearly basis by the department.

Credits: 3

PCRM 304 - Search and Rescue/Wilderness Medicine

This course will provide basic and intermediate instruction in search and rescue techniques and emergency medical procedures in wilderness settings. Students will be introduced to the various evacuation and stabilization procedures

that are commonly implemented in emergency situations.

Credits: 3

PCRM 315 - Recreation Resource Planning and Analysis

This course is designed specifically for student in the Park and Resource Management track. It is designed to provide the student with application of the planning process, from site and program analysis into planning recreational facilities. Students will use a variety of planning tools and on-line analysis resources, as well as a variety of professional recreation planning frameworks.

Prerequisites & Notes

PCRM 214

Credits: 3

PCRM 318 - Administrative Strategies for Resource Managers

The organization and administration of parks and recreation services, including organizational management, personnel practices and labor relations, financial and business procedures and legal aspects.

Credits: 3

PCRM 342 - Group Facilitation and Leadership

This course will cover the concepts related to working with groups as a facilitator. Hands-on approaches to program design, sequencing activities and processing experiences will be examined. Students will facilitate their classmates through a group development experience making use of SRU's low and high challenge courses and the Leadership Reaction Center.

Credits: 3

PCRM 347 - Interpretive Methods and Programming

A study of the principles and methods to interpret natural and cultural history in parks and other outdoor settings.

Credits: 3

PCRM 348 - Natural History of Ecosystems I

This field oriented course is designed to integrate basic scientific inquiry and ecological field techniques to develop skills of analysis, synthesis and evaluation of scientific information for the purpose of environmental and resource management. Results of field investigations are then applied to relevant ecological problems and management objectives for the purpose of environmental decision making.

Credits: 3

PCRM 349 - Natural History of Ecosystems II

This course provides basic natural history information and skills for environmental education and interpretative programming/fundamentals of birding, plant and animal identification, as well as sky and landscape interpretation are

among the topics covered. Field collection, specimen preservation, and state and federal laws regulating field studies and possession of flora and fauna will be discussed.

Prerequisites & Notes

PCRM 348

Credits: 3

PCRM 351 - Parks and Conservation Practicum

Observation and participation in parks and recreation or environmental education activities. Cross listed as RCTH 352.

Prerequisites & Notes

Permission of the instructor

Credits: 3

PCRM 371 - Fundamentals of National Park Service Law Enforcement

This course covers the legal and administrative fundamentals of National Park Service law enforcement including federal law and NPS policies and guidelines.

Credits: 3

PCRM 372 - Visitor Services Management

A study of visitor services including information, safety, rescue and law enforcement services.

Credits: 3

PCRM 374 - Federal Law & Park Policy

This course is designed to provide students with advanced knowledge of federal law, policies, and procedures. Students will develop an in-depth understanding of Federal policy for various land management agencies with emphasis on National Park Service policy. The course will also cover legal updates in park law enforcement.

Credits: 3

PCRM 377 - Cultural Resources Management

This course provides a comprehensive introduction to the management of cultural and historic resources. The course examines the goals, legislation, and methodologies related to cultural resources management, research and programming.

Credits: 3

PCRM 390 - Experimental

A unique and specifically focused course within the general purview of a department which intends to offer it on a "one time only" basis and not as a permanent part of the department's curriculum.

Credits: 3

PCRM 395 - Workshop

A workshop is a program which is usually of short duration, narrow in scope, often non-traditional in content and format, and on a timely topic.

Credits: 3

PCRM 398 - Selected Topics

A **Selected Topics** course is a normal, departmental offering which is directly related to the discipline, but because of its specialized nature, may not be able to be offered on a yearly basis by the department.

Credits: 3

PCRM 405 - Social Ecological Systems

This course uses a social-ecological systems framework in order to advance an interdisciplinary approach to conservation of biological diversity and natural resources. Students will be exposed to contemporary conservation and natural resource management challenges and will learn how those issues can be addressed through an integrated understanding of social and natural systems. Case studies will be presented and discussed in class in order to connect theoretical frameworks to on the ground conservation problems and to consider opposing and controversial viewpoints. Students will develop practical skills in understanding and discussing cross-cultural and interdisciplinary natural resource management issues.

Prerequisites & Notes

None

Course effective Fall 2017

Credits: 3

PCRM 415 - Challenges and Trends in Parks and Conservation

An integrative course for detailed study of current issues in parks and recreation with emphasis on unique and imaginative solutions to the challenges facing the recreation/parks profession. Must be a senior to enroll.

Credits: 3

PCRM 450 - Internship

A supervised off-campus work experience in an appropriate aspect of parks and recreation or environmental education work. Open only to PCRT majors with advanced standing.

Credits: 12

PCRM 471 - NPS Law Enforcement

This course provides an overview of NPS law enforcement policies and procedures, relevant federal laws, Titles 36 and 50, CFR, and courtroom procedures.

Credits: 3

PCRM 472 - Park Law Enforcement

This course provides basic law enforcement skills essential for the park law enforcement ranger.

Credits: 3

PCRM 475 - Park and Resource Management

The principles and practices of recreational land and water management. Field trips required.

Credits: 3

PCRM 477 - Wildlife & Wildlands Field Methods and Management

Course will cover basic concepts related to wildlife management and wild land management practices for terrestrial and aquatic systems. Fire management as it relates to wildlife and wild lands will also be examined.

Prerequisites & Notes

PCRM 348 and PCRM 349

Credits: 3

PCRM 490 - Independent Study

A special study opportunity for students to investigate in-depth, approved topics in recreation or environmental studies. Topic and credit established by student and supervising instructor.

Independent Study courses give students the opportunity to pursue research and/or studies that are not part of the university's traditional course offerings. Students work one on one or in small groups with faculty guidance and are typically required to submit a final paper or project as determined by the supervising professor.

Prerequisites & Notes

Permission of the instructor, departmental chairperson and dean of the college where the study will be conducted

Credits: 1 to 3

PCRM 491 - Professional Seminar

This course is designed to assist students in preparing for entry into the environmental education profession. Topics will include career planning, employment opportunities, employment seeking skills, and discussions centering on areas of interest to the student.

Credits: 1

PCRM 495 - Workshop

A workshop is a program which is usually of short duration, narrow in scope, often non-traditional in content and format, and on a timely topic.

Credits: 3

PCRM 498 - Selected Topics

A **Selected Topics** course is a normal, departmental offering which is directly related to the discipline, but because of its specialized nature, may not be able to be offered on a yearly basis by the department.

Credits: 3

PE 106 - Gymnastics Fundamentals

This course is based on the study of PreK-12 developmentally appropriate gymnastics, with the recognition of individual and group uniqueness, acknowledging and valuing diversity. An emphasis will be placed on an educational gymnastics approach, utilizing movement concepts appropriate for teaching children body awareness and body control. Students will also learn skill progressions, spotting techniques, and biomechanical principles involved in a variety of gymnastic skills performed on traditional and non-traditional gymnastics equipment.

Credits: 3

PE 107 - Aquatic Fundamentals

This course is designed to provide the student with an overview of a variety of aquatic activities. Consideration is given to basic swimming strokes, starts and turns, small craft safety, skin diving, elementary non-swimming rescue techniques, diving progressions from the deck, springboard diving, synchronized swimming, water polo, personal fitness, and aquatic games. This is a Theory and Technique Course (open to Physical Education majors only).

Prerequisites & Notes

American Red Cross Level III swimmer

Credits: 3

PE 113 - Golf

This course is designed to introduce the student to all phases of golf through application of the skills used in these activities. This is a Wellness and Lifetime Activity Course (offered to all students).

Credits: 1

PE 114 - Orienteering

This course is designed to teach the fundamental skills for traveling in the outdoors by map and compass in unfamiliar territory, and to introduce the sport of orienteering. The sport involves competitive cross country hiking/running on a set course as accurately and quickly as possible. This is a Wellness and Lifetime Activity Course (offered to all students).

Credits: 1

PE 115 - Fundamentals of Yoga

Fundamentals of Yoga is an experiential and theoretical course that will introduce the student to the practice and examination of Yoga. The course will cover the practice of yoga postures (asanas), the use of controlled breathing (ujjayi) the engagement of body locks (bandhas), the study of yoga's historic background and the benefits of meditation and relations techniques. Additionally it will examine postures from an anatomical perspective providing the student with a comprehensive examination of proper alignment and correct positioning of the body in order to avoid injury. The course will present the many benefits of Yoga at a physical, mental and emotional level, and its application to the needs of our society today.

Prerequisites & Notes

None

Credits: 2

PE 123 - Stand-Up Paddleboarding

This course is designed to explore the fundamental skills and safety concepts necessary to paddle stand-up paddle boards (SUPs) effectively. Safety procedures will be emphasized such as, selection of waterways appropriate for an individual's skill set and experience level, self-rescue and group rescue approaches. Various paddling techniques including power strokes, turning strokes and bracing with the paddle will be examined. In addition, equipment selection and care, boating regulations, trip planning and logistics, outdoor leadership, basic water reading skills, flat water navigation skills, white water classification and minimum environmental impact techniques will be addressed. An overview of the various types of stand-up paddle boards (SUPs) as well as necessary safety equipment will be explored.

Credits: 2

PE 125 - Bicycling

This course helps develop safe cycling skills. Included in the course will be the opportunity to learn how to select and maintain bicycles. This is a Wellness and Lifetime Activity Course (offered to all students).

Credits: 2

PE 131 - Foundations of Leadership in Physical Activity

This course is designed to introduce the student majoring in Leadership in Physical Activity to the history, philosophies, professional organization, important concepts, careers and trends in physical activity leadership.

Credits: 3

PE 133 - Tai Chi Chuan: Chinese Classical Exercise

An introduction to the Chinese Classical Exercise System inspired by the Chinese "Book of Changes." Tai Chi Chuan concentrates on relaxed movement, proper breathing and attention to posture. Any age or physical performance level may participate. This is a Wellness and Lifetime Activity Course (offered to all students).

Credits: 1

PE 139 - University Seminar

University Seminar serves as the entry point to the Slippery Rock University general education program. With its small seminar setting and strong faculty-student interaction, the course promotes intellectual inquiry, critical and creative thinking, and academic excellence. Through varied content, the course introduces students to academic discourse and information literacy while exploring topics such as diversity and inclusion and global awareness. This course will set students along the path to becoming engaged with issues and scholarship important to a 21st century education while they learn about themselves and their place in the world.

Credits: 3

PE 140 - Downhill Snow Skiing I

This course students to acquire a basic knowledge and appreciation of skiing as a sport and as a life-time leisure activity. Safety procedures and skiing etiquette also are discussed. Instruction takes place at Peek N' Peak Ski Resort. This is a Wellness and Lifetime Activity Course (offered to all students).

Credits: 1

PE 141 - Personal Physical Fitness

This course provides students the opportunity for individual assessment and exercise programs to improve and/or maintain physical fitness and weight control. Principles involved with the maintenance of physical fitness, weight control, diets, and the aging process will be provided through lecture. This is a Wellness and Lifetime Activity Course (offered to all students).

Credits: 1

PE 146 - Beginning Swimming

This course is designed to provide the novice or non-swimmer with the opportunity to learn elementary back stroke, water safety skills, diving and adjustment to water. This is a Wellness and Lifetime Activity Course (offered to all students).

Credits: 1

PE 149 - Tennis

This course teaches basic fundamentals. The rules, regulations, and history of tennis also will be covered, along with strategies of the single and double games. This is a Wellness and Lifetime Activity Course (offered to all students).

Credits: 1

PE 152 - Principles of School Wellness I

This course is an orientation to the art and the science of teaching physical education at the K-12 levels. Framed within the Collaborative Approach to Learning and Health: Whole School, Whole Community, Whole Child, students will study this latest collaborative approach to learning and health which is reflective of a local community and anchored in schools. Required school observations in diverse settings will provide students with the experience to observe and reflect upon class climate, responsibilities for fostering a positive learning environment and high quality teaching. The study of health trends in youth will envelop the latest model of how schools are promoting a comprehensive school-

based physical activity model and the role physical education teacher play in it. Schools central to professional development including a writing assessment, resume development and starting a professional portfolio are used as artifacts of reflective practice at this initial state of teacher education. This is a Theory course (open to Physical Education majors only).

Prerequisites & Notes

None

Credits: 3

PE 166 - Coaching Practicum

The coaching practicum is designed to provide the student with a realistic experience at a level and in a setting similar to that in which he/she wishes to obtain employment.

The practicum experience is a 50-hour learning opportunity in which the student assists in all phases of the operation of an athletic program. The student may not be the head coach, unless a direct supervisor is present. **The student may not be a current participating athlete on the team.**

The student may not work with the same team twice. Each experience must be at a different level if working with the same sport. A minimum of two different sports must be included in the practicum experiences. (For example: HS baseball, Little League baseball, HS football).

Each student must complete a contract with the athletic program and submit the contract to the coaching practicum coordinator (University supervisor) for approval. The coordinator will then contact the athletic program for verification of the learning experience, dates of the experiences and details of evaluation procedures.

Credits: 1

PE 175 - Teaching of Track and Field

Emphasizes track and field skill acquisition along with identification of appropriate teaching methods associated with these activities. This is a Theory and Technique Course (open to Physical Education majors only).

Credits: 1

PE 177 - Teaching of Self-Defense/Lacrosse

The course deals with the skills, knowledge, and attributes needed for self-defense and lacrosse. This course also emphasizes the teaching, coaching, officiating, and physical skill development of men's and women's lacrosse. This is a Theory and Technique Course (open to Physical Education majors only).

Credits: 1

PE 181 - Adventures in Backpacking

This course teaches the basic knowledge and skills of backpacking travel in a temperate environment. Techniques such as how to use and to carry a backpack, hiking skills including route selection and trail negotiation with a pack, map, and compass techniques, knowledge and care of backpacking equipment, planning backpacking trips, and environmentally sound backpacking skills will be covered. The course includes a mandatory weekend trip to put skills to practical use. This is a Wellness and Lifetime Activity Course (offered to all students).

Credits: 1

PE 182 - Introduction to Rock Climbing

This course introduces students to the fundamental skills of top rope rock climbing. Beginning skills in belaying, static climbing, rappelling, prussiking, artificial wall climbing, safety considerations, and minimal environmental approaches will be covered. The student will be introduced to various teaching methodologies and classroom management approaches specific to rock climbing community and commercial settings.

Credits: 1

PE 184 - Adventure Games

This course is designed to provide physical activity and direct experience in adventure challenges requiring self-discipline, willingness to try, and personal commitment. Coursework includes physical fitness and flexibility exercises, aerobic games, cooperative games and nongames, group initiatives, trust activities, and challenge course low and high elements involving perceived physical and psychological risk and challenges. This is a Wellness and Lifetime Activity Course (offered to all students).

Credits: 1

PE 186 - Cross Country Skiing

This course teaches the fundamental knowledge and skills of classical cross country skiing and touring, including waxing and equipment care. This is a Wellness and Lifetime Activity Course (offered to all students).

Credits: 2

PE 187 - Flat-water Canoe Tripping

This course teaches the basic skills and concepts of flat-water canoe camping, such as how to enter and to exit a canoe, tandem paddling techniques, canoe safety, and canoe portaging. Students will also learn basic canoe camping skills, including food planning, how to use camping equipment, and minimum impact camping techniques. Students will participate in a mandatory weekend canoe camping experience to put learned skills to practical use. This is a Wellness and Lifetime Activity Course (offered to all students).

Credits: 1

PE 188 - Sailing

This course offers students an opportunity to develop skills, to learn techniques, and to achieve personal satisfaction in beginning sailing. The course also involves the knowledge and application of the rules of water safety to the sport of sailing. This class is designed for beginners. At its conclusion students will be able to enjoy sailing as a lifetime recreational sport. This is a Wellness and Lifetime Activity Course (offered to all students).

Credits: 1

PE 189 - Basic Canoeing

This introductory course is designed to explore the fundamental skills and safety concepts necessary to paddle a canoe effectively. Furthermore, the student will be introduced to various teaching methodologies and classroom management approaches for teaching in non-traditional settings. Safety procedures will be emphasized including self-rescue and group rescue approaches. Various paddling techniques including power strokes, turning strokes, and bracing with the paddle will be examined. In addition, equipment selection and care, boating regulations, trip planning and logistics, outdoor leadership, basic water reading skills, white water classification and minimum environmental impact techniques will be addressed. An overview of the various types of and safety equipment will be explored.

Credits: 2

PE 190 - Experimental

A unique and specifically focused course within the general purview of a department which intends to offer it on a "one time only" basis and not as a permanent part of the department's curriculum.

Credits: 3

PE 191 - Foundations of School Wellness

This course is designed to introduce the student to the historical, philosophical, cultural and sociological influences that have shaped the profession of teaching health and physical education. A foundational perspective will be taken to clarify the related disciplines, history and current issues of health and physical education and of education, from the ancient cultures to the 21st century. Including the framework involved in the Whole School, whole child, whole Community (WSCC) Model, the Comprehensive School Physical Activity Program (CSPAP) and the Health Optimizing Physical Education (HOPE) Model.

Prerequisites & Notes

None

Credits: 3

PE 192 - Diversity Issues in Physical Education

This course will explore differences among students within a variety of physical education settings. Students will learn about other people and explore how others view participation in physical activity and exercise. This course will help students become sensitive to and appreciate the diversity of others, thus, demonstrating responsible social behaviors that will enable them to interact in a positive manner with diverse groups within the physical education enrichment. This is a Theory and Technique Course.

Credits: 2

PE 195 - Workshop

A workshop is a program which is usually of short duration, narrow in scope, often non-traditional in content and format, and on a timely topic.

Credits: 3

PE 198 - Selected Topic

A **Selected Topics** course is a normal, departmental offering which is directly related to the discipline, but because of its specialized nature, may not be able to be offered on a yearly basis by the department.

Credits: 3

PE 202 - Technology for Wellness

This course is designed to provide the student with an overview of the various types of technology that can be utilized in the area of wellness and fitness. The purpose of this course is to familiarize and enhance students' technology skills to support instruction in various education, wellness and fitness settings. The course includes personal computer use in creating materials to enhance instruction, promotion and assessment. Also included are other emerging technologies, in addition to various internet options. A portion of the course will be conducted using SRU's Learning Management System.

Prerequisites & Notes

None

Credits: 3

PE 227 - Introduction to Adapted Physical Activity

Develop an understanding of disabilities and apply that knowledge in the application of active-living, community-based physical activity programs.

Credits: 3

PE 230 - Teaching and Coaching of Track and Field

This course is designed to introduce the student to the teaching and coaching aspect of Track and Field. Skill acquisition, strength and conditioning methods, teaching and coaching skills, and historical perspectives of Track and Field will be studied. Emphasis will be placed on planning and applying developmentally appropriate activities for all learners.

Credits: 3

PE 231 - Strategies for Teaching Physical Activity

This course is designed to teach evidence-based educational methods and adult learning strategies to equip the student to educate individuals throughout the lifespan through: 1) a basic understanding of learning and developmental theories; 2) communication techniques; 3) positive behavior management; 4) environmental modifications; and 5) group engagement strategies.

Credits: 3

PE 236 - Introduction to Kayaking

This introductory course is designed to explore the fundamental skill and safety concepts necessary to paddle a kayak effectively. Safety procedures will be emphasized such as entering and exiting the kayak, the bow rescue, the Eskimo roll, as well as self-rescue and group-rescue approaches. Various paddling techniques including power strokes, turning

strokes, and bracing with the paddle will be examined. In addition, equipment selection and care, boating regulations, tripping planning and logistics, outdoor leadership, basic water reading skills, white water classification and minimum environmental impact techniques will be addressed. An overview of the various types of kayaks and kayaking, such as whitewater kayaks, sit-on-top kayaks, and touring kayaks, as well as necessary safety equipment, will be explored.

Credits: 2

PE 237 - Emergency Medical Response

This course is designed to provide the student with the knowledge and skills necessary to work as an emergency medical responder (EMR) to help sustain life, reduce pain and minimize the consequences of injury or sudden illness until more advanced medical help takes over. The course content meets or exceeds the current Emergency Medical Services Educational Standards for Emergency Medical Responders and current NATA Education Competencies.

Credits: 3

PE 238 - Applied Principles of Exercise

This course will provide students with an understanding of applied exercise principles associated with both health and skill related fitness, topics will include: warm up and cool down protocols, exercise frequency, intensity, type and time (FITT) principles, overload, progression, specificity, regularity and individuality (Basic Training Principles) and target heart-rate.

Credits: 3

PE 240 - Downhill Snow Skiing II

Advanced techniques of downhill skiing are presented. Instruction takes place at Peek N' Peak Resort. This is a Wellness and Lifetime Activity Course (offered to all students).

Credits: 1

PE 241 - Outdoor Pursuits

This course is designed to introduce the student majoring in physical education teacher education to the varied but interrelated topics of outdoor pursuits, adventure programming, experiential education, and new games philosophy as they relate to physical education and recreation programming. The course will provide physical activity, direct experience, and leadership techniques in adventure challenges which require self-discipline, a willingness to try, and personal commitment. A weekend overnight backpacking/camping experience is required. This is a Theory and Technique Course (open to Physical Education majors only).

Credits: 3

PE 242 - Physical Health and Fitness Education

This course is designed to provide knowledge of evidence based benefits associated with regular physical activity along with knowledge to develop, organize, administer, and assess age appropriate physical activity and fitness programs for children, adolescents and adults.

Prerequisites & Notes

PE 141

Credits: 3

PE 243 - Educational Movement in Health & Wellness

This course helps students achieve individual competency in applying educational gymnastics, fundamental movement, educational/multicultural games and educational/ creative dance to learn Laban's educational movement concepts through the use of cooperative learning, problem solving, and guided discovery. Students construct developmentally appropriate interdisciplinary standards-based expressive movement experiences that show meaningful application to children's learning inclusive of children with special needs and English language learners. Content will also address health and wellness concepts central to grades pre-K-4 as it relates to educational movement. Students will reflect (metacognition) upon their educational movement experiences including but not limited to individual competency, diversity, critical thinking, core subject integration, and differentiating instruction.

Change to 3 credits from 2 in Fall 2013 semester.

Credits: 3

PE 250 - Equine Assisted Activities

An introduction to equine assisted activities including basic safety skills, lesson preparation, benefits for individuals with disabilities, tack/equine selection, and certification procedures. Students will gain practical experience through riding horses and assisting individuals with disabilities during lessons.

Credits: 3

PE 253 - Principles of School Wellness II

This course is an orientation to the art and the science of teaching physical and health at the K-12 levels. Framed within the National Standards & Grade level Outcomes for K-12 Physical Education (SHAPE America, 2014) pre-service teacher candidates will study curriculum models, grade level outcomes, class organization, management and safety techniques, developmentally appropriate communication techniques, health and wellness integration strategies infused in lessons, locating and using professional resources for planning and teaching, lesson plan writing, a spectrum of direct and indirect teaching styles, systematic observation tools, teaching and post-lesson reflecting. Skills central to professional development include lesson plan writing, class organization and management documentation, systematic observation of teaching, post-lesson reflecting. Pre-service teacher candidates will build on the professional portfolio started in PE 152 using artifacts.

Prerequisites & Notes

PE 152 and PE 383: Minimum Grade of C

Credits: 3

PE 258 - Social & Emotional Wellness

This course is designed to examine topics relating to psychosocial health & wellness of school aged youth as a part of a comprehensive approach to school wellness. Future educators will learn how to address topics such as respect and appreciation for all persons, bullying, conflict resolution, stress reduction, suicide prevention, depression, anxiety and high-risk behavior with K-12 students.

Prerequisites & Notes

None

Credits: 3

PE 262 - Adapted Aquatics

Develop knowledge base in the study of disability through discussion and practical experiences as it relates to aquatic programming.

Prerequisites & Notes

None

Credits: 3

PE 263 - Lifeguarding

The lifeguarding course is designed to provide lifeguard candidates with skills and knowledge necessary to keep patrons of aquatic facilities safe in and around water. This course includes techniques with aquatic-specific first aid and cardiopulmonary resuscitation (CPR) training, Automated External Defibrillation, Oxygen Administration and training in specific water environments. Offered to all students.

Credits: 3

PE 266 - Disability Sport in the 21st Century: A Global Perspective

This course is designed to introduce the students to the study of Disability Sport across the world. Students will study the history, current movement, and future developments of Disability Sport in an ever changing and emerging field of sport for persons with disabilities.

Credits: 3

PE 268 - Contemporary Topics in Health

This course is designed to introduce students to current issues in health and wellness and provide opportunities for students to assess health needs in school and community settings. In this course, students will identify programs and initiatives that promote healthy living and improve well-being based on the health needs of society.

Prerequisites & Notes

None

Credits: 3

PE 270 - Psychological and Sociological Bases of Sport

This course provides students with an understanding of the relationships between sport and various psychological and sociological factors. This is a Theory and Technique Course.

Credits: 3

PE 272 - Enhancing Fitness through Running and Walking

This course is designed to teach students how to personally perform and to lead others in aerobic physical activities using indoor and outdoor settings. This course focuses on leading fitness enhancing activities through running, trail-running, Nordic walking, community walking and hiking. These activities are designed to improve aerobic fitness, manage weight and promote healthy lifestyles. The settings include roadways, trails and community common areas. Course content centers on individual and group health and fitness, and strategies for conveying this information.

Credits: 2

PE 274 - Assessment Strategies in Physical Education

This course content is designed to give the student an understanding of assessment techniques used in physical education. Students will learn the various techniques used for assessing as applied in the public school setting. Students will have the opportunity to use several of the computer applications related to physical education. This is a Theory and Technique Course.

Prerequisites & Notes

PE 152

Credits: 3

PE 275 - Women in Sport

This course emphasizes the problems, processes and patterns of sport involvement of women in utilizing an historical, sociological, psychological and biological approach. The focus is primarily on women in the United States, although the sport participation of women in other cultures is also examined. This is a Theory and Technique Course (open to Physical Education majors only).

Credits: 3

PE 276 - Skate-Based Action Sports

This course explores the fundamental skills and safety concepts necessary to engage in skate-based action sports effectively. Safety procedures such as, choosing locations and terrain appropriate for an individual's skill set and experience level are emphasized. Skate-based learning progressions address various skating techniques including proper stance, effective stopping, efficient pushing, turning, carving, sliding, core-specific land paddling strokes and bracing with the paddle. In addition, equipment selection and care, safety equipment requirements, regulations, trip planning and logistics, outdoor adventure leadership, and minimum environmental impact techniques are examined. There is an overview of the various types of skateboards longboards/land paddling boards and in-line skates as well as necessary safety equipment.

Prerequisites & Notes

None.

Credits: 2

PE 289 - Advanced Canoeing

This course teaches students the advanced skills and techniques of canoeing. Safety instruction is emphasized. This is a Wellness and Lifetime Activity Course (offered to all students).

Credits: 1

PE 290 - Experimental

A unique and specifically focused course within the general purview of a department which intends to offer it on a “one time only” basis and not as a permanent part of the department’s curriculum.

Credits: 3

PE 295 - Workshop

A workshop is a program which is usually of short duration, narrow in scope, often non-traditional in content and format, and on a timely topic.

Credits: 3

PE 298 - Selected Topic

A **Selected Topics** course is a normal, departmental offering which is directly related to the discipline, but because of its specialized nature, may not be able to be offered on a yearly basis by the department.

Credits: 3

PE 301 - Sports Officiating

This diverse class is designed to provide the student with an overview of the techniques required for officiating various sports. The official's role and rules of the game(s) will be presented, and opportunities will be provided for practical officiating experience. This will be followed by comprehensive analysis of the student's officiating style, knowledge of the rules and professionalism.

Credits: 3

PE 302 - Foundations of Online Teaching and Learning

The course is designed to provide learners opportunities to understand the foundations of distance education. Students will be able to demonstrate competencies and skills to apply instructional strategies to develop curriculum that meets the needs of distant learners. In addition, students will be able to use various assessment methods to evaluate student learning through distance education.

Credits: 3

PE 303 - Using Educational Technology to Enhance Learning

This course is designed to provide students with the knowledge and skills necessary to effectively use educational technology to enhance learning in both a traditional face-to-face classroom and also through distance or cyber education.

Prerequisites & Notes

None

Credits: 3

PE 304 - Teaching Physical Education through Distance Education

This course is designed to provide students with the knowledge and skills necessary to effectively teach physical education through distance or cyber education.

Prerequisites & Notes

PE 302 and 303 with grade of C or better

Credits: 3

PE 305 - Teaching Health Education through Distance Education

This course is designed to provide students with the knowledge and skills necessary to effectively teach health education through distance or cyber education.

Prerequisites & Notes

PE 302 and 303 with grade of C or better

Credits: 3

PE 306 - Conditioning for Athletic Performance

This course is designed to engage and immerse students in the theory and application of power and speed training as well as athletic motor skill development. Students will study the relationships among biomotor abilities and apply training principles and methods associated with the development of power-based athletic skills. Students will design and apply daily-, short- and long-term training programs for coaching athletes who seek improved athletic performance.

Prerequisites & Notes

None.

Credits: 3

PE 310 - Elementary School Wellness Skills and Fitness Activities

This course is designed to engage and immerse the student in the Society for Health and Physical Education (SHAPE) elementary grade level standards for health and physical education knowledge and skills. Along with these standards this course will engage students in developmentally appropriate activities and lesson plan concepts that will ensure the teacher candidates understand the developmental progression of fundamental motor skills, their application to higher level movement, fitness and rhythmic. Teacher candidates will develop knowledge to create physically literate elementary aged learners who are prepared to lead a healthy active and well life.

Prerequisites & Notes

PE 152 with a grade of C or better; and
PE 383 with a grade of C or better

Credits: 3

PE 311 - Middle School Wellness Skills and Fitness Activities

This course is designed to engage and immerse the teacher candidate in the Society for Health and Physical Education (SHAPE) middle school grade level standards for health and physical education knowledge and skills. Along with these standards this course will engage teacher candidates in developmentally appropriate activities and lesson plan concepts that will ensure that they understand how to develop physical skills and knowledge to create physically literate middle school aged learners are prepared to lead a healthy active and well life.

Prerequisites & Notes

PE 310 with a grade of C or better

Credits: 3

PE 312 - Secondary School Wellness Skills and Fitness Activities

This course is designed to engage and immerse the teacher candidate in the Society for Health and Physical Education (SHAPE) high school grade level standards for health and physical education knowledge and skills. Along with these standards this course will engage teacher candidates in developmentally appropriate activities and lesson plan concepts that will ensure that they understand how to develop specialized health optimizing physical activity and knowledge to create physically literate high school aged learners who are prepared to be healthy and active adults and college or career ready.

Prerequisites & Notes

PE 310 with a grade of C or better

Credits: 3

PE 328 - School Nutrition and Wellness

This course will provide students with information about the K-12 school nutrition environment and school nutrition services as defined by the Society of Health and Physical Educators (SHAPE America). Students will learn strategies for teaching K-12 students to reach and maintain a healthy weight as well as strategies for modeling healthy dietary behaviors and providing opportunities for healthy eating in schools. The role of the collaboration between school wellness educators, food service personnel, School Nurses and Registered Dietitians for improving students' nutrition and wellness will be discussed. This course is designed to provide the student with an understanding of the fundamental aspects of nutrition concepts and how they are applied to the K-12 settings.

Prerequisites & Notes

PE 268 with a grade of C or better

Credits: 3

PE 331 - Evidence-based Physical Activity Practices

This course is designed to introduce students in current theories, models and successful interventions used in physical activity promotion including: factors/barriers influencing physical activity among children/adolescents and adults. The focus of the course is on the acquisition of evidence-based practices that lead to appropriate assessment strategies, implementation models and evaluative techniques.

Prerequisites & Notes

PE 131; PE 231

Credits: 3

PE 332 - Administration and Management of Physical Activity Programs

This course is designed to teach students how to ethically administer, manage and evaluate physical activity programs in the community with respect to managing operations, developing and managing financial resources and managing human resources.

Prerequisites & Notes

PE 131

Credits: 3

PE 334 - Applied Methodologies in Adventure Activities

This course is designed to teach evidence-based educational methods and learning strategies to equip the student to educate individuals in a variety of adventure throughout the lifespan through a variety of adventure activities. A number of pertinent topics specific to adventure education will be addressed including foundational knowledge, self-awareness and professional conduct, decision making and judgment, experiential teaching and facilitation, environmental stewardship, adventure program management, adventure safety and risk management, inclusive learning, and technical ability.

Credits: 3

PE 335 - Science of the Mind-Body Connection

This course will introduce students to a variety of fitness activities such as yoga and Pilates, along with other physical activities associated with nature all with a mind and body connection and associated with stress management and overall health-related fitness. This course will explore the interconnectedness of the mind and body in relation to quality of life and prevention of chronic disease.

Credits: 3

PE 338 - Teaching and Leading Group Exercise

This course provides opportunities for practical skills and instruction to prepare the student to teach and lead various large group fitness activities, involving children, adolescents and adults. Emphasis is placed on design, developmental appropriateness, safety, and modification for diverse populations who are apparently healthy.

Prerequisites & Notes

PE 238

Credits: 3

PE 342 - Wellness through Movement

This course is designed to provide the student with scientifically based knowledge concerning the benefits of physical activity along with the consequences associated with a lack of physical activity both on a personal and societal level. Students will participate in application of physical activity training, health-related fitness assessments and lifestyle modification activities.

Prerequisites & Notes

N/A

Credits: 3

PE 345 - Teaching and Coaching of Water Polo

This course is designed to introduce the student to the teaching and coaching aspects of water polo. Skill acquisition, strategy and tactics, strength and conditioning, teaching and coaching skills for water polo will be studied. Emphasis will be placed on planning and applying developmentally appropriate activities for all learners.

Credits: 3

PE 348 - Aquatic Leadership

This course is designed to prepare students for leadership responsibilities in the field of aquatics. Program development, facility operation, risk management, and staff management will be included in this course.

Prerequisites & Notes

Water Safety Instructor Certification

Credits: 2

PE 349 - Skin and Scuba Diving

This course provides students with the opportunity to learn a wide variety of skin and scuba diving skills, including rescue techniques. In addition, emphasis will be placed upon the following: 1) selection, care, and use of diving equipment, 2) physical and biological aspects of various diving environments, 3) first aid as applied to scuba diving, including cardio-pulmonary resuscitation, and 4) aspects of physics, physiology, and medicine related to the diver's performance in the water. This is a Wellness and Lifetime Activity Course (offered to all students).

Credits: 3

PE 352 - Secondary Physical Education Teaching Methods

Designed as a third level pedagogy class. This course offers “in-depth” continuation of the study and application of effective teaching and learning in the secondary physical education classroom. This is a Theory and Technique Course (open to Physical Education majors only).

Prerequisites & Notes

PE274 and acceptance to teaching certification

Credits: 3

PE 353 - Adapted Physical Activity and Health through the Lifespan

This course is designed to investigate the concept of transition across the lifespan with regard to health promotion and physical activity for individuals with disabilities. Students will develop and implement appropriate physical activity programs for specific developmental lifespan stages.

Prerequisites & Notes

PE 227 or permission of the instructor

Credits: 3

PE 356 - Net/Wall Activities and Games

This course is designed to introduce the student to games and skills associated with a variety of racquet activities and games, which will include tennis, badminton, racquetball, volleyball, and table tennis. Emphasis will be placed on planning and applying developmentally appropriate activities for all learners. This is a Theory and Technique Course (open to Physical Education majors only).

Credits: 3

PE 357 - Territory Activities and Games

This course is designed to introduce the student to the games and skills associated with a variety of territory activities and games, which will include flag football, basketball, hockey and soccer. Emphasis will be placed on planning and applying developmentally appropriate activities for all learners.

Credits: 3

PE 358 - Lifetime/Leisure Activities and Games

This course is designed to introduce the student to the games and skills associated with a variety of target activities including, but not limited to, golf, bowling, and archery. Emphasis will be placed on planning and applying developmentally appropriate activities for diverse learners. This is a Theory and Technique Course (open to Physical Education majors only)

Credits: 3

PE 359 - Striking/Fielding Activities and Games

This course is designed to introduce the student to the games and skills associated with a variety of striking/fielding activities, which will include softball, cricket, and rounders. Emphasis will be placed on planning and applying developmentally appropriate activities for all learners. This is a Theory and Technique Course (open to Physical Education majors only).

Credits: 2

PE 360 - Anatomical and Physiological Bases of Physical Activity

This course is designed to provide the basic anatomical and physiological principles that have direct application to physical activity movement and health for populations. Weekly laboratory sessions will provide practical application experiences to illustrate the theoretical knowledge base.

Credits: 3

PE 362 - School Health Education Teaching Methods

The course focuses on Health Education curriculum design and developmentally appropriate instructional techniques that can be utilized for health promotion in school settings. Course included universally accepted pedagogical strategies with opportunities to observe and practice these strategies with K-12 health education content.

Prerequisites & Notes

Include successful completion of PE 268 (minimum grade of "C") and acceptance into the College of Education

Credits: 3

PE 363 - Lifeguarding Instructor

The purpose of the Lifeguarding Instructor course is to train instructor candidates to teach lifeguard training, first aid, lifeguard management, CPR for the professional rescuer, AED essentials, oxygen administration for the professional rescuer, preventing disease transmission, community water safety, and basic water rescue. The training in this instructor course prepares instructor candidates by developing their understanding of how to use course materials, how to conduct training sessions, and how to evaluate participants' progress.

Credits: 3

PE 364 - Biomechanics of Individuals with Disabilities

A study of human movement patterns with emphasis on the development of efficient movement for special populations. Efficient movement patterns will be based on anatomical, mechanical, and physiological principles.

Prerequisites & Notes

PE 227 or permission of instructor

Credits: 3

PE 369 - Philosophy and Psychology of Coaching

This course emphasizes the relationships involved in the association of the coach with the administration, student body, players, press and community. This is a Theory and Technique Course.

Credits: 3

PE 378 - Teaching and Leading of Strength/Resistance Training

This course is designed to provide practical knowledge to prepare students to teach, lead and effectively design individualized weight training and/or muscular fitness programs. Students will apply principles of resistance training in a hands-on setting with a specific emphasis on techniques, strength and endurance training, safety procedures, equipment, and individualized programming.

Prerequisites & Notes

PE 238

Credits: 3

PE 379 - Fitness Management

This course provides the knowledge base to effectively design, promote, manage and assess health related fitness programs in a variety of community and commercial facilities. A wide range of teaching, leading and managing practices associated directly with health fitness facilities will be reviewed.

Credits: 3

PE 383 - Motor Development and Learning

This course introduces the student to the factors influencing the changes in the development and learning of motor skills from infancy to adolescence. Practical laboratory activities are utilized to illustrate basic concepts of motor development and motor learning. This is a Theory and Technique Course (open to Physical Education majors only).

Prerequisites & Notes

CDEV 248 and admission to teacher certification

Credits: 3

PE 390 - Experimental

A unique and specifically focused course within the general purview of a department which intends to offer it on a "one time only" basis and not as a permanent part of the department's curriculum.

Credits: 3

PE 395 - Workshop

A workshop is a program which is usually of short duration, narrow in scope, often non-traditional in content and format, and on a timely topic.

Credits: 3

PE 398 - Selected Topic

A **Selected Topics** course is a normal, departmental offering which is directly related to the discipline, but because of its specialized nature, may not be able to be offered on a yearly basis by the department.

Credits: 3

PE 420 - Field Experience

This course is designed to provide students with experiences which allow them to apply their knowledge and skills in a practical worksite situation. This is a Theory and Technique Course (open to Physical Education majors only).

Credits: 1

PE 430 - Living Well

This course, which is the capstone course for the Living Well program is designed to engage and immerse the student in evidence-based literature related to living well while building self-evaluation and motivation strategies. Content areas emphasized will be physical activity, nutrition/dietary guidelines and stress. This course will also engage students in experiential education opportunities and reflection on these experiences. These experiences will be anchored by co-curricular opportunities provided on campus through the Aebersold Recreation Center, AVI Nutrition Services, the Slippery Rock University Health Center and the Slippery Rock University Leadership office.

Prerequisites & Notes

ERS 230 with a grade of B or better; and
HLTH 314 with a grade of C or better; and

PE 342 with a grade of C or better

Credits: 3

PE 446 - Water Safety Instruction

The purpose of this instructor course is to train instructor candidates to teach American Red Cross Swimming and Water Safety courses. It is a certification course for American Red Cross Water Safety Instructor (WSI).

Prerequisites & Notes

PE 107 or permission of instructor.

Credits: 3

PE 450 - Internship in Physical Activity

This course is designed to provide students an opportunity to apply career-oriented skills acquired through the Leadership in Physical Activity Track in a supervised work experience in a university approved agency.

Prior to enrolling in PE 450, student must have:

- Completion of Internship Application Form
- Proof of Professional Liability Insurance
- Proof of current Adult, Child and Infant CPR, AED and, First Aid & Safety certifications
- Overall and major GPA requirement: 2.5 or higher
- Successful completion of all Leadership in Physical Activity coursework

Course active beginning Fall 2013.

Prerequisites & Notes

PE 131, 231, 202, 331, 332, 473, 242, 360, 268, 335

Credits: 1 to 12

PE 452 - Elementary Strategies for School Wellness

This professional methods course will provide the preservice teacher candidate with knowledge and skills to effectively contribute to a culture of school wellness through a high quality physical and health education program. Students will develop best-practice planning, teaching and assessment strategies and apply them in a semester-long field experience involving grades K-6. This will also include designing initiatives from leading comprehensive school wellness programs

Prerequisites & Notes

Acceptance into the College of Education; and

PE 252; and

PE 310; and

PE 328; and

PE 383

Credits: 3

PE 455 - Student Teaching - Physical Education

Under the guidance of a cooperating teacher and university supervisor, students in this course engage in two eight-week assignments on a full-time basis in specified school districts and attend scheduled seminars. Additional assignments required. This is a Theory and Technique Course (open to Physical Education majors only).

Prerequisites & Notes

PE 452 and admission to teacher certification

Credits: 12

PE 460 - Program Design in Adapted Physical Activity

Develops competencies in the implementation of developmentally appropriate activities for children and adults with disabilities in the school and through transitional programs conducted within the community.

Prerequisites & Notes

PE 227

Credits: 3

PE 462 - Secondary Strategies in School Wellness

The course focuses on Health Education instructional and assessment techniques that can be utilized for health promotion in school settings. Development of a comprehensive school health curriculum using the National Health Education Standards and the Assessment Framework is emphasized including appropriate scope and sequence, content, and skills. Special emphasis is accorded to meeting the Pennsylvania Chapter Regulations that address teaching HIV/AIDS, human sexuality, family life education, tobacco, alcohol, and other forms of chemical abuse. The course includes a practical in the schools that allows opportunities to observe, practice, and reflect on specific school health education teaching strategies.

Prerequisites & Notes

Prerequisites: Acceptance to COE Teacher Candidacy, PE 258, PE 311, PE 312, PE 452.

Co-requisites: PE 472

Credits: 6

PE 468 - Senior Seminar in Physical and Health Education Teacher Education

This course is designed to provide a capstone overview of the organization, management and application of physical education and health instructional and extra-class programs. Content focuses on current issues and trends in the

discipline. This is a Theory and Technique Course (open to Physical Education majors only).

Prerequisites & Notes

PE 352 and admission to teacher certification

Credits: 2

PE 472 - School Wellness Assessment and Promotion

Provide teacher candidates with conceptual tools to analyze health-related behaviors of school-aged learners and the social, cultural and environmental context in which they occur. This course will apply theories drawn from public health, psychology and sociology to the process of planning and evaluating wellness instruction in schools that assists learners in developing and maintaining healthy behaviors. The process of collecting, tracking and analyzing health-related data will be included in the course as well as current applications, programs and tools that can be used to track and improve health behaviors.

Prerequisites & Notes

Prerequisite - PE 252 with a grade of C or better

Co-requisite - PE 462 (must be taken in the same semester)

Credits: 3

PE 473 - Professionalism, Advocacy, and Leadership in Physical Activity

This course is designed to actively involve the learner in an advanced study of physical activity. The course is conducted in seminar format and the students will study the application of the principles, methods, organization and administration of individualized physical activity programs and the development of professional, advocacy and leadership qualities and skills.

Prerequisites & Notes

PE 227

Credits: 3

PE 485 - Fundraising/Grant Writing in Adapted Physical Activity

This course is designed to develop competencies in fund raising strategies utilizing grant writing skills geared toward corporations and charitable foundations. Students will study the specific skills needed to develop a funding concept, preparation of the proposal, and the establishment of relationships with potential donors.

Prerequisites & Notes

DUAL LISTED AS PE 685 AT THE GRADUATE LEVEL.

DUAL LISTING BEGINS WINTER TERM 2014-15

Credits: 3

PE 490 - Independent Study

With the approval of the students' advisors and departmental chairperson, students may pursue an individual project in physical education especially suited to meet the students' needs.

Independent Study courses give students the opportunity to pursue research and/or studies that are not part of the university's traditional course offerings. Students work one on one or in small groups with faculty guidance and are typically required to submit a final paper or project as determined by the supervising professor.

Prerequisites & Notes

Permission of the instructor, departmental chairperson, and Dean of the college where the study will be conducted.

Credits: 1 to 3

PE 495 - Workshop

A workshop is a program which is usually of short duration, narrow in scope, often non-traditional in content and format, and on a timely topic.

Credits: 3

PE 498 - Selected Topics

The in-depth examination of a specific topic. The nature of the topic selected and its treatment determined in consultation with the instructor.

A **Selected Topics** course is a normal, departmental offering which is directly related to the discipline, but because of its specialized nature, may not be able to be offered on a yearly basis by the department.

Credits: 1 to 3

PHIL 101 - Philosophical Inquiry

A first encounter with the nature and methods of philosophical thinking in which a person's view of his/her own nature and of the world becomes challenged, explored and deepened. Students read a diverse range of primary texts, both classical and contemporary, western and non-western. They may also view films and other media that present philosophical arguments. This course introduces students to the many forms of inquiry and analysis conducted in the humanities, with a focus on the perennial questions that philosophy addresses.

Credits: 3

PHIL 110 - Ethics and Civil Discourse

An introduction to the practice of civil discourse through a philosophical study of ethics from theoretical and applied perspectives.

Credits: 3

PHIL 113 - Formal Logic

An introduction to the standards and methods of inference utilized in formal systems of logic including traditional syllogistic logic and modern propositional logic. Phil 113 is designed to improve students' ability to recognize fallacies in reasoning, to identify and make valid inferences, and to construct sound arguments.

Credits: 3

PHIL 123 - Ethics

An introduction to the study of questions concerning right action, moral obligation, and an examination of various theories of moral judgment. This course introduces students to the many forms of inquiry and analysis conducted in the humanities, especially philosophy, and the perennial questions that philosophy addresses. Students engage a diverse range of primary texts in ethics and ethical theory, both classical and contemporary, western and non-western. They also view and analyze films and other media that present ethical arguments.

Credits: 3

PHIL 139 - University Seminar

University Seminar serves as the entry point to the Slippery Rock University general education program. With its small seminar setting and strong faculty-student interaction, the course promotes intellectual inquiry, critical and creative thinking, and academic excellence. Through varied content, the course introduces students to academic discourse and information literacy while exploring topics such as diversity and inclusion and global awareness. This course will set students along the path to becoming engaged with issues and scholarship important to a 21st century education while they learn about themselves and their place in the world.

Credits: 3

PHIL 140 - World Religions

This course is designed to be a survey of religious traditions from across the globe and an exploration of their philosophies and world views. This course introduces students to the many forms of inquiry and analysis conducted in the humanities, especially religious studies and comparative religion. Students engage a range of primary and secondary texts to gain a comparative understanding of the world's religions.

Credits: 3

PHIL 163 - Philosophy in Literature

An examination of the philosophical content of poetry, prose, and film of exceptional literary and philosophical merit. This course introduces students to the many forms of inquiry and analysis conducted in the humanities, especially philosophy, and the perennial questions that philosophy addresses. Students engage a diverse range of literary texts, both classical and contemporary, western and non-western. They also view and analyze films and other media that present philosophical arguments.

Credits: 3

PHIL 170 - American Philosophy

An investigation of the historical genesis of American culture through a reading of the prominent philosophical literature the culture has produced.

Credits: 3

PHIL 171 - Philosophy of Human Existence

An investigation into and discussion of the central themes of existential philosophy. Philosophers such as Kierkegaard and Nietzsche will be studied in terms of their retrieval of the meaning of human existence.

Credits: 3

PHIL 190 - Experimental

A unique and specifically focused course within the general purview of a department which intends to offer it on a "one time only "basis and not as a permanent part of the department's curriculum.

Credits: 1 to 3

PHIL 195 - Workshop

A workshop is a program which is usually of short duration, narrow in scope, often non-traditional in content and format, and on a timely topic.

Credits: 1 to 3

PHIL 198 - Selected Topics

A **Selected Topics** course is a normal, departmental offering which is directly related to the discipline, but because of its specialized nature, may not be able to be offered on a yearly basis by the department.

Credits: 1 to 3

PHIL 261 - Philosophy of Art

Exploration of basic issues and philosophical views of the experience of the arts. This course aims at the understanding and enhancement of the experience of the arts, and at a thoughtful appraisal of the role of art in life.

Prerequisites & Notes

One course in Philosophy or permission of the instructor

Credits: 3

PHIL 290 - Experimental

A unique and specifically focused course within the general purview of a department which intends to offer it on a "one time only "basis and not as a permanent part of the department's curriculum.

Credits: 1 to 3

PHIL 295 - Workshop

A workshop is a program which is usually of short duration, narrow in scope, often non-traditional in content and format, and on a timely topic.

Credits: 1 to 3

PHIL 298 - Selected Topics

A **Selected Topics** course is a normal, departmental offering which is directly related to the discipline, but because of its specialized nature, may not be able to be offered on a yearly basis by the department.

Credits: 1 to 3

PHIL 313 - Symbolic Logic

An advanced investigation of logical thought through the use of special techniques of symbolization, the logic of unquantified and quantified propositions, the nature and limits of logical systems and the foundation of mathematics are some of the important topics considered.

Prerequisites & Notes

Logic or Algebra

Credits: 3

PHIL 324 - Environmental Ethics

An analysis of environmental issues using a philosophical understanding of nature, with a consideration of the ethical responsibilities in the use of the earth's resources, behavior toward non-human species, and obligations toward future generations.

Credits: 3

PHIL 325 - Medical/Health Care Ethics

A course in applied ethics about conceptual, ethical, and legal dilemmas in the institutional rights of patients, in the responsibilities of practitioners, in technological challenges to values in the modern age in caring for the seriously ill and the dying, and in rationing health care in a large society.

Prerequisites & Notes

Prefer to have students with background in health care fields, social and behavioral sciences, life sciences, pre-law, pre-med and philosophy

Credits: 3

PHIL 326 - Business Ethics

A study of applied ethics about the conceptual and ethical dilemmas in the business professions. An examination of cultural challenges of social and moral responsibility in a technically sophisticated economic climate.

Prerequisites & Notes

Prefer students with background in business, accounting, management, marketing, finance, economics, communication and pre-law

Credits: 3

PHIL 331 - Social and Political Philosophy

An in-depth study of central concepts and issues in social and political thought from multiple, diverse perspectives. Issues may include just and fair societies, theories of political obligation, and theories of citizenship and civic engagement with regard to *diverse, heterogeneous* communities.

Credits: 3

PHIL 335 - Philosophy of Law and Justice

A study of multiple theories of law and the nature of law's relation to justice with special emphasis on a notion of justice for institutions.

Prerequisites & Notes

Prefer students with background in communication, history, philosophy, pre-law, government and public affairs and sociology

Credits: 3

PHIL 336 - Philosophy of Gender and Sex

This course will examine concepts, values, and assumptions relevant to gender and sex in our diverse society. Topics to be explored may include the ontological status of gender and sex; the cultural representations of masculinity, femininity, and sexuality; or the relationship between gender, society and power, and its epistemological and ethical consequences.

Credits: 3

PHIL 338 - Ethics, Technology, and the Future

This course considers ethical, sociopolitical, epistemological, and metaphysical issues arising from the design and use of emerging technologies, including information technologies, robots and autonomous machines, neurological and implantable technologies, genetic engineering, and artificial intelligence, as well as the more speculative technologies of science fiction.

Credits: 3

PHIL 341 - Philosophy of Religion

A critical inquiry into the nature and validity of religious belief and experience, its relation to other human interests, *its diversity*, and *its contemporary significance*.

Prerequisites & Notes

One course in Philosophy or permission of the instructor

Credits: 3

PHIL 343 - Asian Philosophy

An investigation of the central religions and philosophical ideas of Oriental cultures, focusing primarily on the cultures of India, China, Japan and Southeast Asia.

Prerequisites & Notes

One course in Philosophy or permission of the instructor

Credits: 3

PHIL 351 - Philosophy of Natural Science

An in-depth examination of the nature of natural science, including its aims, methods, central concepts, and limits and a thoughtful appraisal of its significance for the modern age.

Prerequisites & Notes

Two college-level courses in Natural Sciences and Mathematics

Credits: 3

PHIL 371 - History of Western Philosophy I

A study of major Western philosophers and philosophical issues from the ancient period and extending into the medieval period, designed to show how basic questions and concepts grew and how the works of these periods continue to provide insight and inspiration.

Prerequisites & Notes

One course in Philosophy or permission of the instructor

Credits: 3

PHIL 372 - History of Western Philosophy II

A study of Western philosophy from the Renaissance through the beginning of the 19th century, tracing the basic concepts and problems of this period and showing how its thinkers continue to stimulate thought.

Prerequisites & Notes

One course in Philosophy or permission of the instructor

Credits: 3

PHIL 373 - Modern Authors and Issues

Variable content within the modern contemporary period of philosophical thinking. Repeatable to 6 credits.

Prerequisites & Notes

One course in Philosophy or permission of the instructor

Credits: 3

PHIL 375 - Existentialism and Phenomenology

A study of important twentieth century philosophers in terms of their attempt to establish a new approach to philosophy and their reaction and attempt to overcome "Western metaphysics."

Prerequisites & Notes

One course in Philosophy or permission of the instructor

Credits: 3

PHIL 376 - Analytic Philosophy

An examination of the development and influence of Anglo-American analytic philosophy in the twentieth century. The focus will be on how analytic philosophers have used logic, the analysis of language, and scientific methodology in approaching traditional philosophical questions.

Prerequisites & Notes

One course in Philosophy or permission of the instructor

Credits: 3

PHIL 390 - Experimental

A unique and specifically focused course within the general purview of a department which intends to offer it on a "one time only" basis and not as a permanent part of the department's curriculum.

Credits: 1 to 3

PHIL 395 - Workshop

A workshop is a program which is usually of short duration, narrow in scope, often non-traditional in content and format, and on a timely topic.

Credits: 1 to 3

PHIL 398 - Selected Topics

A **Selected Topics** course is a normal, departmental offering which is directly related to the discipline, but because of its specialized nature, may not be able to be offered on a yearly basis by the department.

Credits: 3

PHIL 490 - Independent Study

A special course designed primarily for students seeking knowledge in philosophy beyond course offerings. The student's interests, in consultation with department members, determines the topics covered. Independent Study courses give students the opportunity to pursue research and/or studies that are not part of the university's traditional course offerings. Students work one on one or in small groups with faculty guidance and are typically required to submit a final paper or project as determined by the supervising professor.

Prerequisites & Notes

15 credits in Philosophy or permission of the instructor, departmental chairperson and dean of the college where the study will be conducted

Credits: 1 to 3

PHIL 495 - Workshop

A workshop is a program which is usually of short duration, narrow in scope, often non-traditional in content and format, and on a timely topic.

Credits: 1 to 3

PHIL 498 - Selected Topics

The in-depth examination of a specific topic. The nature of the topic selected and its treatment determined in consultation with the instructor.

A **Selected Topics** course is a normal, departmental offering which is directly related to the discipline, but because of its specialized nature, may not be able to be offered on a yearly basis by the department.

Prerequisites & Notes

One course in Philosophy or permission of the instructor

Credits: 1 to 3

PHYS 101 - Concepts of Science I/ Lab

A descriptive and conceptual course in physics designed for the non-science major. Topics are selected from light, sound, motion, and astronomy to develop a necessary scientific attitude and background for today's society. There are two lectures and one-two hour laboratory per week.

Credits: 3

PHYS 102 - Concepts of Science II

A descriptive and conceptual course in physics designed for the non-science major to study energy systems. Topics are selected from heat, electricity, magnetism, and the structure of matter and modern areas of physics, such as lasers, X-rays, and nuclear energy. The purpose of the course is to develop a positive scientific attitude and background for today's society. No laboratory.

Credits: 3

PHYS 103 - Investigating Matter and Energy/ Lab

This is an activity-based and discussion-oriented course designed for the non-science major. The topics of light, matter, heat, and electricity have been selected to help students develop meaningful understanding of some powerful ideas that they can apply to a wide variety of interesting phenomena. Laboratory credit is given for taking this liberal studies enrichment course.

Credits: 3

PHYS 120 - Engineering Design Tools

This is the second in a two-semester course sequence aiming to provide students with an introduction to engineering, design process, and tools needed in the engineering professions. This course focuses on the design process, introduction to engineering computing tools, engineering graphics using a Computer Aided Design (CAD) software platform, and 3D printing. Students will learn the basic tools and techniques used in engineering design and problem solving.

Prerequisites & Notes

Prerequisite: ENGR 110

Credits: 2

PHYS 139 - University Seminar

University Seminar serves as the entry point to the Slippery Rock University general education program. With its small seminar setting and strong faculty-student interaction, the course promotes intellectual inquiry, critical and creative thinking, and academic excellence. Through varied content, the course introduces students to academic discourse and information literacy while exploring topics such as diversity and inclusion and global awareness. This course will set students along the path to becoming engaged with issues and scholarship important to a 21st century education while they learn about themselves and their place in the world.

Credits: 3

PHYS 140 - Engineering Graphics I

A beginning laboratory course in technological design and drawing. Topics: lettering, scales, geometric construction, orthographic sketching, and auxiliary views.

Credits: 2

PHYS 141 - Engineering Graphics II

An advanced laboratory course in technological drawing and implementation. Topics: Vectors, graphing, nomography, isometric pictorials, technical illustration, computer graphics, and working drawings.

Prerequisites & Notes

PHYS 140

Credits: 1

PHYS 190 - Experimental

A unique and specifically focused course within the general purview of a department which intends to offer it on a "one time only" basis and not as a permanent part of the department's curriculum.

Credits: 3

PHYS 195 - Workshop

A workshop is a program which is usually of short duration, narrow in scope, often non-traditional in content and format, and on a timely topic.

Credits: 3

PHYS 198 - Selected Topic

A **Selected Topics** course is a normal, departmental offering which is directly related to the discipline, but because of its specialized nature, may not be able to be offered on a yearly basis by the department.

Credits: 3

PHYS 201 - Elements of Physics I/ Lab

Introduction to physics at the algebra/trigonometry mathematical level. Topics include: mechanics, fluids, oscillations, waves, and sound. Course is especially designed for students enrolled in health science majors. Includes a lab.

Credits: 4

PHYS 202 - Elements of Physics II/ Lab

Introduction to physics at the algebra/trigonometry mathematical level. Topics include: thermal physics, optics, electricity and magnetism, and nuclear physics. Course is especially designed for health science majors. Includes a lab.

Prerequisites & Notes

PHYS 201

Credits: 4

PHYS 204 - Environmental Biophysics

An introductory course covering the energy problem and alternative solutions; radiation and its effects on man; the eye and vision; the ear, hearing and noise pollution; electrical power production alternatives and the environmental costs; some instruments used in biophysics and medicine.

Credits: 3

PHYS 211 - General Physics I/ Lab

Introduction to physics using calculus and including extensive problem solving. Topics include mechanics statics, kinematics, kinetics, work-energy, rotational motion, and impulse-momentum. Includes a lab.

Prerequisites & Notes

Co-requisite: MATH 225

Credits: 4

PHYS 212 - General Physics II/ Lab

This is a calculus based course, which follows PHYS 211. It develops the concepts of electric and magnetic fields. Topics covered are Gauss' Law, Ampere's Law, Biot's Law, Faraday's Law, electric charges and their dynamics, capacitance, resistance inductance, etc. Offered fall semester only. Includes a lab.

Prerequisites & Notes

Pre/Co-requisites: MATH 230 and PHYS 211

Credits: 3

PHYS 213 - General Physics III/ Lab

Covers fluids, hydrostatics and hydro-dynamics, heat transfer and measurements, laws of thermodynamics, vibrating bodies, wave motion, light lenses and optical instruments, interference and diffraction, polarization. Includes a lab. Offered spring term only.

Prerequisites & Notes

PHYS 211

Credits: 4

PHYS 271 - Astronomy

This course is designed for the general student. Recent findings in astronomy are discussed, i.e., black holes, quasars, etc. Other topics of interest are the evolution of stars, galaxies, and the universe since the big bang. No math required.

Credits: 3

PHYS 290 - Experimental

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Credits: 3

PHYS 295 - Workshop

A workshop is a program which is usually of short duration, narrow in scope, often non-traditional in content and format, and on a timely topic.

Credits: 3

PHYS 298 - Selected Topic

A **Selected Topics** course is a normal, departmental offering which is directly related to the discipline, but because of its specialized nature, may not be able to be offered on a yearly basis by the department.

Credits: 3

PHYS 301 - Physical Chemistry I

Thermodynamics and chemical kinetics. Cross listed as CHEM301.

Prerequisites & Notes

CHEM 108, 112, PHYS 212 or 213 and MATH 230

Credits: 3

PHYS 312 - Modern Physics 1

An introductory course that focuses on the transition from classical physics covered in the calculus based introductory physics sequence to contemporary physics. Topics include: Brief overview of special relativity, experimental and theoretical developments that led to the discovery of the atomic structure, early quantum mechanics, Schrodinger's equation and its application and a brief introduction to solid state physics.

Prerequisites & Notes

PHYS 212, 213 and MATH 230

Credits: 3

PHYS 314 - Statics

Includes the application of equilibrium conditions to structures, trusses, frames and machines, and beams with concentrated and distributed loads.

Prerequisites & Notes

Prerequisite: PHYS 211

Prerequisite/Co-requisite: MATH 230

Credits: 3

PHYS 315 - Dynamics

Integrates the subject content of kinematics and kinetics that deal respectively with the description of motion of bodies and the causes for their motion.

Prerequisites & Notes

Prerequisites: ENGR 210 and PHYS 314

Credits: 3

PHYS 317 - Space Science

Introductory course in space exploration. It emphasizes the evolution of the earth with respect to its neighbors in the solar system. Other topics covered are the earth's ionosphere, magnetosphere, hazards of satellite communication, and orbital dynamics.

Prerequisites & Notes

Advanced standing, completion of one course in Natural Science and Mathematics and two years of high school Algebra or its equivalent

Credits: 3

PHYS 325 - Analog & Digital Electronics

An introductory analog and digital electronics course designed primarily for science students. The course will start with an analysis of AC and DC circuits using Kirchhoff's laws and complex numbers. The analog part will include a study of discrete components including diodes, transistors, and SCRs as well as linear integrated circuits. The digital part will include basic gates as well as MSI and LSI circuits and will be center around interfacing computers to experiments.

Prerequisites & Notes

PHYS 212 or permission of the instructor

Credits: 3

PHYS 331 - Mathematical Methods of Physics

Applications in physical science and engineering of the following: vector analysis, complex variables, Fourier and Laplace transforms, linear algebra, and some boundary value problems. Cross-linked as MATH 331. This course may be counted as a physics course or as a mathematics course, but not both.

Prerequisites & Notes

PHYS 211 and MATH 240; Co-requisite: MATH 231

Credits: 3

PHYS 371 - Physical Optics

This is a physical optics course dealing with the nature and transmission of light. Topics covered will include the propagation of light, coherence, interference, diffraction, Maxwell's Equations, optics of solids, thermal radiation, optical spectra and lasers.

Prerequisites & Notes

PHYS 212, 213

Credits: 3

PHYS 375 - Thermal Physics

This is an introductory course in thermodynamics and statistical mechanics, with application to both physics and engineering.

Prerequisites & Notes

PHYS 213 AND MATH 231

Credits: 3

PHYS 381 - Advanced Physics Laboratory

Selected experiments in all branches of physics that are of a more advanced grade than those given at the general or intermediate level. Each experiment will be an extended piece of careful, thorough work, culminating in a detailed report.

Prerequisites & Notes

PHYS 211, 212, 213 and junior standing

Credits: 2

PHYS 382 - Optics Laboratory

This course will provide in depth experience in laboratory techniques, data acquisition and analysis in the field of Optical Physics. Experiments are of a more advanced grade than those given at the general or intermediate level. Each experiment will be an extended piece of careful, thorough work, culminating in a detailed report. Appropriate for students majoring in the Biological, Earth, Environmental, Health, Mathematics and Physical sciences.

Prerequisites & Notes

PHYS, 211, 212, 213 or 201 and 202, a course in calculus and junior standing or permission of the instructor

Credits: 2

PHYS 385 - Computational Physics

An introduction to scientific computational methods and their application in physics. A range of numerical and symbolic computing techniques will be explored, including numerical integration, matrix methods, differential equations, random walks, and Monte Carlo simulations. These techniques together with visualization methods will be used to solve problems taken from different physics topics, such as classical mechanics, electricity and magnetism, thermodynamics, quantum mechanics, and biophysics.

Prerequisites & Notes

PHYS 213, MATH 240, CpSc 140, or consent of the instructor.

Credits: 3

PHYS 390 - Experimental

A unique and specifically focused course within the general purview of a department which intends to offer it on a "one time only" basis and not as a permanent part of the department's curriculum.

Credits: 3

PHYS 395 - Workshop

A workshop is a program which is usually of short duration, narrow in scope, often non-traditional in content and format, and on a timely topic.

Credits: 3

PHYS 398 - Selected Topic

A **Selected Topics** course is a normal, departmental offering which is directly related to the discipline, but because of its specialized nature, may not be able to be offered on a yearly basis by the department.

Credits: 3

PHYS 410 - Electricity and Magnetism

Electric fields and potentials of charge distributions and polarized materials, magnetic fields and vector potentials of current distributions and magnetized materials; electric and magnetic energies and application of Maxwell's equations.

Prerequisites & Notes

PHYS 212, 331

Credits: 3

PHYS 412 - Modern Physics 2

This course explores the applications of Quantum mechanics and relativity. Topics covered will include atomic physics, quantum statistics, solid state physics, nuclear physics, astrophysics, and cosmology.

Prerequisites & Notes

PHYS 312, MATH 231, Co-requisite: PHYS 331

Credits: 1

PHYS 421 - Materials Safety and Equipment Overview for Nanofabrication - NMT 311

This course provides an overview of basic nanofabrication processing equipment and materials handling procedures with a focus on safety, environment, and health issues. Topics covered include: cleanroom operation, environmental, safety, and health issues, vacuum pump systems operation, environmental safety and health issues (covering direct drive mechanical, roots blowers, turbomolecular, and dry mechanical systems); thermal- processing equipment operation, safety, environmental, and health issues (covering horizontal, vertical, rapid thermal annealing tools); chemical vapor deposition system operation, safety, environmental, and health issues (covering gas delivery, corrosive and flammable gas storage and plumbing, regulators, and mass flow controllers); and vacuum deposition/etching system operation, safety, environment, and health issues (covering microwave and RF power supplies and tuners, heating and cooling units, vacuum gauges, valves, and process controllers). Specific materials handling issues include those arising from using deionization water, solvents, cleansers, organic materials, ion implementation sources, diffusion sources, photoresists, developers, metal dielectrics and toxic, flammable, corrosive and high purity gases as well as packaging materials.

Prerequisites & Notes

Acceptance into the NMT Capstone Semester at Penn State

Credits: 3

PHYS 422 - Basic Nanofabrication Processes - NMT 312

The course provides an overview of basic processing steps used in all applications of nanofabrication. Both top-down and bottom-up nanofabrication are included. The majority of the course details a step-by-step description of the equipment and processes needed to fabricate devices and structures such as bio-chips, CMOS transistors, power devices, microelectromechanical (MEM) devices, and opto-electronic structures. Students learn the similarities and differences in both the equipment and process flows needed in fabricating all of these various structures.

Prerequisites & Notes

Acceptance into the NMT Capstone Semester at Penn State

Credits: 3

PHYS 423 - Thin Films in Nanofabrication - NMT 313

This course covers thin film deposition and etching practices in nanofabrication. The deposition techniques addressed in the first part of the course include atmospheric, low pressure, and plasma enhanced chemical vapor deposition and sputtering, thermal evaporation, and beam evaporation physical vapor deposition. Also included are self-assembling molecule based techniques. Materials considered include organics, dielectrics (e.g., nitrides, oxides), polysilicon (doped and undoped), metals (e.g., aluminum, tungsten, copper), adhesion promoters and diffusion barriers. The second part of the course focuses on etching processes and emphasizes reactive ion etching (single wafer, batch), high-ion-density reactors, ion beam etching and wet chemical etching. Students receive hands-on experience in depositing and etching dielectric, semiconductor, and metal materials using state-of-the-art tools and experience practicing the steps critical to micro- and nanofabrication of structures used in a variety of fields from biotechnology and the biomedical fields to microelectronics.

Prerequisites & Notes

Acceptance into the NMT Capstone Semester at Penn State

Credits: 3

PHYS 424 - Advanced Lithography and Dielectrics Nanofabrication - NMT 314

This course covers all aspects of lithography from design and mask fabrication to pattern transfer and inspection. The course is divided into three major sections. The first section describes the lithographic process from substrate preparation to exposure. The second section examines the processes from development through inspection (both before and after pattern transfer). This section introduces optical masks, aligners, steppers and scanners. In addition, critical dimension (CD) and profile control of photoresists are investigated. The last section discusses advances in optical lithographic techniques such as phase shifting masks and illumination schemes as well as molecular ruler, e-beam, x-ray, EUV, and ion beam lithography.

Prerequisites & Notes

Acceptance into the NMT Capstone Semester at Penn State

Credits: 3

PHYS 425 - Materials Modification in Nanofabrication - NMT 315

This course covers in detail the processing steps used in modifying material properties in nanofabrication. Included are chemical reaction, growth and annealing processes. The impact of thermal processing and thermal processing on defects, gettering, and impurities and overall electrical, mechanical, optical, and chemical properties are studied. The student grows and measures gate and field oxides, implants and activates source and drain regions, and evaluates thermal budget requirements using state-of-the-art tools. Included also are other modification technologies such as ion implantation, diffusion and chemical surface preparation and treatment. Substrate preparation processing such as slicing, etching, polishing and epitaxial growth are also covered.

Prerequisites & Notes

Acceptance into the NMT Capstone Semester at Penn State

Credits: 3

PHYS 426 - Characterization, Packaging and Testing of Nanofabrication Structures - NMT 316

This course examines a variety of measurements and techniques essential for controlling micro- and nanofabrication processes. Monitoring techniques such as residual gas analysis (RGA), optical emission spectroscopy (OES) and end point detection are discussed. Characterization techniques such as scanning electron microscopy x-ray photoelectron spectroscopy, atomic probe methods advanced optical microscopy, optical thin film measurements, ellipsometry, and resistivity/conductivity measurements are introduced and tied to process control. Basic measurements for yield analysis and process control are also stressed. These include breakdown measurements, junction testing, and capacitance-voltage and current voltage characterization. In addition, the characteristics of some simple bio-chip structures and MEMs devices are obtained and discussed. The student learns about the manufacturing issues involved in interconnects, materials compatibility and final device assembly. Aluminum, refractory metals and plastic fabrication techniques and characterization are discussed in detail along with topics such as diffusion barriers, contact resistance, electro migration, corrosion, and adhesion. The importance of planarization techniques such as deposition/etchback and chemical/mechanical polishing are emphasized. Lastly, procedures such as die separation, bonding, and sealing and final test for both conventional Cs and MEMs and biomedical devices are examined.

Prerequisites & Notes

Acceptance into the NMT Capstone Semester at Penn State

Credits: 3

PHYS 480 - Quantum

In this introductory course in quantum mechanics, the foundations and origins will be covered. Other topics will include wave packets, the uncertainty principle, the Schroedinger equation, operator formalism, eigen functions, spherically symmetric systems, angular momentum, spin and scattering theory.

Prerequisites & Notes

PHYS 331, 411 and MATH 240; Co-requisite: MATH 301

Credits: 3

PHYS 490 - Independent Study

Investigation of the theoretical or experimental area following a plan or proposal initiated by the student and approved by the major advisor.

Independent Study courses give students the opportunity to pursue research and/or studies that are not part of the university's traditional course offerings. Students work one on one or in small groups with faculty guidance and are

typically required to submit a final paper or project as determined by the supervising professor.

Prerequisites & Notes

permission of the instructor, departmental chairperson and dean of the college where the study will be conducted

Credits: 1 to 3

PHYS 495 - Workshop

A workshop is a program which is usually of short duration, narrow in scope, often non-traditional in content and format, and on a timely topic.

Credits: 3

PHYS 498 - Selected Topics

The in-depth examination of a specific topic. The nature of the topic selected and its treatment determined in consultation with the instructor.

A **Selected Topics** course is a normal, departmental offering which is directly related to the discipline, but because of its specialized nature, may not be able to be offered on a yearly basis by the department.

Credits: 1 to 3

PHYS 590 - Experimental

A unique and specifically focused course within the general purview of a department which intends to offer it on a "one time only" basis and not as a permanent part of the department's curriculum

Credits: 3

PHYS 595 - Workshop

Varies.

Credits: 3

PHYS 598 - Selected Topic

Varies.

Credits: 3

PHYS 700 - Independent Study

Varies.

Credits: 3

PNGE 139 - University Seminar

University Seminar serves as the entry point to the Slippery Rock University general education program. With its small seminar setting and strong faculty-student interaction, the course promotes intellectual inquiry, critical and creative thinking, and academic excellence. Through varied content, the course introduces students to academic discourse and information literacy while exploring topics such as diversity and inclusion and global awareness. This course will set students along the path to becoming engaged with issues and scholarship important to a 21st century education while they learn about themselves and their place in the world.

Credits: 3

PNGE 201 - Introduction to Petroleum and Natural Gas Engineering

This course provides an overview of different aspects of petroleum and natural gas engineering from generation to exploration of petroleum reservoirs to drilling and production from these resources.

Credits: 1

PNGE 312 - Reservoir Rock and Fluid Properties

This course provides an in depth review of the properties of the reservoir rock and fluids. Topics covered will include theoretical and applied phase behavior of hydrocarbon systems and hydrocarbon fluid properties, basic properties of petroleum reservoir rocks and laboratory evaluation of basic and special petroleum reservoir rock and fluid properties.

Prerequisites & Notes

ENGR 320 and CHEM 107/111 and PNGE 201

Credits: 4

PNGE 315 - Reservoir Fluids

Thermodynamic behavior of naturally occurring hydrocarbon mixtures; evaluation and correlation of physical properties of petroleum reservoir fluids including laboratory and empirical methods. Includes a laboratory component.

Prerequisites & Notes

Prerequisites: PNGE 213 and CHEM 108

Credits: 3

PNGE 325 - Reservoir Engineering

This course provides an in depth review of reservoir characteristics and behavior. Topics covered will include fluid flow through porous materials, evaluation of oil and gas resources and the reserves under a variety of production methods, and prediction of reservoir performance to achieve maximum conservation.

Prerequisites & Notes

Prerequisite: EGEO 327

Co-requisite: PNGE 315

Credits: 3

PNGE 330 - Unconventional Reservoir Engineering

This course addresses topics that are specific to exploration of unconventional reservoirs - identification and characterization, economics, efficient completion technologies and development strategies. Tight gas and shale gas reservoirs and coal bed methane engineering are addressed.

Prerequisites & Notes

Prerequisite: PNGE 325

Credits: 3

PNGE 410 - Drilling Engineering/Lab

This course provides an in depth review of drilling engineering practices. Topics covered will include functions and design considerations for the rotating system, hoisting system and circulating system; drilling fluids calculations and selections; hydraulic programs; drilling optimization; casing string design; cementing programs; and pressure control; laboratory evaluation of mud weight control filtration, chemical contaminants and rheological models.

Prerequisites & Notes

ENGR 301 and PNGE 312

Credits: 4

PNGE 420 - Production Engineering

This course provides an in depth review of petroleum production engineering practices. Topics covered will include well completion, performance of productive formations, drill stem tests, completion of wells, flowing wells, gas lift methods and equipment, pumping installation design, well stimulation, emulsion, treating, gathering and storage of oil and gas, field automation.

Prerequisites & Notes

Prerequisites: PNGE 312 and PNGE 325

Co-requisite: PNGE 410

Credits: 3

PNGE 430 - Reservoir Simulation

Mathematical models governing fluid flow in reservoirs; relevant numerical methods; numerical reservoir simulations; treatment of wells; history matching; simulation project performed using a commercial simulator.

Prerequisites & Notes

Prerequisites: CPSC 146 and MATH 309

Credits: 3

PNGE 432 - Formation Evaluation

This course provides an in depth review of techniques for formation evaluation. Topics covered will include various well logging methods and related calculations with exercises in interpretation of data from actual well logs.

Prerequisites & Notes

ENGR 310 and PNGE 312

Credits: 3

PNGE 435 - Pressure Transient Analysis

This course provides an in depth review of the well test analysis methods. Topics covered will include pressure transient tests and interpretation methods, unsteady-state fluid flow through porous rock, analysis of the drawdown and buildup tests, wellbore storage, application of pressure derivative in pressure transient data analysis, testing of hydraulically fractured wells, type curve method, testing of horizontal wells, unified method of analysis, well test design

Prerequisites & Notes

PNGE 325

Credits: 3

PNGE 440 - Hydraulic Fracturing

The lecture/lab course starts with a general overview of different types of unconventional reservoirs and their geological and petrophysical properties. Second part of the course emphasizes hydraulic fracturing design and data collection for proper fracture design. Lab component of the course will provide hands-on experience on hydraulic fracturing simulations using commercial software.

Prerequisites & Notes

Prerequisites: PNGE 325

Credits: 2

PNGE 441 - Oil and Natural Gas Resource Valuation and Economics

This course provides an in depth review of the techniques for oil and gas property evaluation. Topics covered will include reserve estimation, decline analysis, petroleum property evaluation, interest calculations, cost estimation, and tax evaluation, investment decision analysis and computer applications in property evaluation.

Prerequisites & Notes

Prerequisites: MATH 352 and PNGE 325

Co-requisite: PNGE 432

Credits: 3

PNGE 445 - Natural Gas Engineering w/Lab

This course provides an in depth review of natural gas evaluation and production engineering practices. Topics covered will include natural gas properties, compression, transmission, processing and application of reservoir engineering principles to predict the performance and design of gas, gas-condensate and storage reservoirs. Includes a laboratory devoted to gas measurements.

Prerequisites & Notes

PNGE 325

Credits: 3

PNGE 450 - Internship

Supervised placement and research in selected public and private agencies.

Prerequisites & Notes

Permission of instructor

Credits: 3 to 9

PNGE 459 - Petroleum and Natural Gas Design/Capstone I

This course provides a proposal preparation for PNGE 460 which includes defining a comprehensive problem in design involving systems in oil and gas production, field processing, transportation, and storage.

Prerequisites & Notes

Prerequisites: PNGE 325 and PNGE 410

Co-equisites: PNGE 420 and PNGE 432

Credits: 11

PNGE 460 - Petroleum and Natural Gas Engineering Design/Capstone

This course provides comprehensive problems in design involving systems in oil and gas production, field processing, transportation and storage.

Prerequisites & Notes

Prerequisites: PNGE 325 and PNGE 432 and PNGE 410 and PNGE 420

Credits: 3

PNGE 470 - Petroleum and Natural Gas Engineering Undergraduate Research

Research and design problems of limited scope approved on an individual basis intended to promote independent inquiry.

Prerequisites & Notes

Prerequisites: Permission of the instructor

Credits: 1-3

PNGE 490 - Independent Study

Investigation of the theoretical or experimental area following a plan or proposal initiated by the student and approved by the major advisor.

Independent Study courses give students the opportunity to pursue research and/or studies that are not part of the university's traditional course offerings. Students work one on one or in small groups with faculty guidance and are typically required to submit a final paper or project as determined by the supervising professor.

Prerequisites & Notes

Permission of the instructor, departmental chairperson and dean of the college where the study will be conducted.

Credits: 1 to 3

POLS 101 - American National Government

A survey of American national politics, emphasis on the constitution, parties, interest groups, elections, organization and structure of government.

Credits: 3

POLS 103 - International Relations

An overview of the politics of various governments; the nature of relations among nations; a study of problems such as terrorism and multinationals as political participants.

Credits: 3

POLS 110 - Foundations of Political Science

This course introduces students to contemporary political problems and how political scientists think about those problems. Students will learn the language of political science including the big themes, concepts, and models that span centuries of political science literature and provide insight into global and domestic political conflict. Students will use the lens of political science to explore concepts such as liberty, equality, justice, rights, individual autonomy, democracy and representation, identity and tolerance, the appropriate role and limits of government, and sovereignty of states in the international system. Although non-democratic forms of governance will be examined, this course will focus on democratic governance - why we chose it, what political practices and reforms can improve it, and how citizens through engagement and dialogue can help to strengthen it. This course will emphasize the relevance of the core concepts of political science in relation to important contested political issues in the US and the global community today.

Prerequisites & Notes

None.

Credits: 3

POLS 139 - University Seminar

University Seminar serves as the entry point to the Slippery Rock University general education program. With its small seminar setting and strong faculty-student interaction, the course promotes intellectual inquiry, critical and creative thinking, and academic excellence. Through varied content, the course introduces students to academic discourse and information literacy while exploring topics such as diversity and inclusion and global awareness. This course will set students along the path to becoming engaged with issues and scholarship important to a 21st century education while they learn about themselves and their place in the world.

Credits: 3

POLS 190 - Experimental

A one-time experimental course offering.

A unique and specifically focused course within the general purview of a department which intends to offer it on a "one time only" basis and not as a permanent part of the department's curriculum.

Credits: 0

POLS 195 - Workshop

Special topics of interest to undergraduates and selected members of the community.

A workshop is a program which is usually of short duration, narrow in scope, often non-traditional in content and format, and on a timely topic.

Credits: 1 to 3

POLS 198 - Selected Topics

The in-depth examination of a specific topic to be determined by the department in consultation with the instructor.

A **Selected Topics** course is a normal, departmental offering which is directly related to the discipline, but because of its specialized nature, may not be able to be offered on a yearly basis by the department.

Credits: 0

POLS 200 - State and Local Government

Examines state levels of government. Emphasis is on constitutions, parties and interest groups, elections, organization and structure of government.

Credits: 3

POLS 215 - Introduction to Political Theory

An introduction to classical and modern theories of politics, governments, and ideologies.

FORMER COURSE NUMBER 105

Credits: 3

POLS 220 - Foreign Policy

The study of selected instruments of foreign policy, how it is formulated and implemented; the focus is on the U.S.

Prerequisites & Notes

Sophomore class standing

Credits: 3

POLS 223 - Law and Courts

An introductory examination of the structure of the judicial branch of government; what we mean when we talk about the "law"; how our understanding of what is law has developed and changed throughout our history; how our state and

federal courts are administered and structured; the nature of legal education; the work of the Supreme Court, judges, and lawyers; how the criminal justice system chooses juries, tries defendants, negotiates justice through plea bargaining, and depends on its judiciary; and the role of the legal system in resolving private disputes.

Credits: 3

POLS 235 - Civil Discourse and Democracy

This course is an introduction to civil discourse, or the practice of constructive dialogues and deliberation, based in mutual respect, which ultimately seeks to advance the public interest. Students will use the lens of political science to explore contemporary political problems and how to approach, discuss, and analyze them.

Prerequisites & Notes

Prerequisites: None

Credits: 3

POLS 255 - Introduction to Public Policy

This course introduces students to the idea that private actions create problems for communities that citizens and community leaders must work together to solve. Students learn a universal framework for overcoming community problems as well as the skills needed to recognize the moral and democratic dilemmas inherent in these problems. Students hone their knowledge by gathering evidence, researching, and addressing real community issues.

Credits: 3

POLS 263 - Introduction to Comparative Politics

The stress is on descriptions and conceptions of the state and political institutions in the non-Western and Western worlds; with attention on policy-making, national issues, and systems.

Credits: 3

POLS 290 - Experimental

A one time experimental course offering.

A unique and specifically focused course within the general purview of a department which intends to offer it on a "one time only" basis and not as a permanent part of the department's curriculum.

Credits: 0

POLS 295 - Workshop

Special topics of interest to undergraduates and selected members of the community.

A workshop is a program which is usually of short duration, narrow in scope, often non-traditional in content and format, and on a timely topic.

Credits: 1 to 3

POLS 298 - Selected Topics

The in-depth examination of a specific topic to be determined by the department in consultation with the instructor. A **Selected Topics** course is a normal, departmental offering which is directly related to the discipline, but because of its specialized nature, may not be able to be offered on a yearly basis by the department.

Credits: 0

POLS 301 - Organized Political Action

Political parties and interest groups provide crucial linkages between citizens and their government. This course will investigate the nature and origins of organized political groups in American politics, seeking to understand what it takes for political parties and interest groups, which are informal players of American politics, to survive, thrive, and develop a powerful voice in the national political dialogue. While the course focuses on American parties and interest groups, they will be explored in the global and comparative context.

Prerequisites & Notes

None.

Credits: 3

POLS 303 - Seminar in Democracy

In response to waning public trust in American public institutions and democracy, it is imperative to understand how political systems fail. In this course, students will define democracy, discuss what happens when democracies break down, identify the causes of the breakdown, and find solutions to these problems. Students will also identify those characteristics and behaviors democracy requires of citizens for the system to work well.

Prerequisites & Notes

None.

Credits: 3

POLS 306 - Campaigns & Elections

Elections are the cornerstone of democracy. Without free, fair and frequent elections, there is no popular governance. The United States holds more elections for more public offices and governments than any other nation in the world. The purpose of this course is to examine the key issues, questions, and controversies surrounding campaigns and elections in the United States and compare to campaigns and elections held in other democracies around the world.

Prerequisites & Notes

None.

Credits: 3

POLS 310 - Research Methods

An examination of the foundations of systematic research, techniques of data collection and methods of data analysis.

Credits: 3

POLS 321 - The Presidency

The study and evaluation of executive leadership in modern governments; the roles, functions and types of presidential leaders.

Credits: 3

POLS 322 - The United Nations and International Law

An examination of the development, structure, and operations of the United Nations system and the fundamentals of public international law.

Prerequisites & Notes

Sophomore class standing

Credits: 3

POLS 325 - The Congress

The study of legislative structures, functions and organizations; focus on legislative elections, committees, and decision-making.

Credits: 3

POLS 327 - Public Opinion and Political Attitudes

An examination of the nature, origins, and structures of political attitudes.

Prerequisites & Notes

3 credits of Political Science or permission of the instructor

Credits: 3

POLS 328 - Assessing Public Opinion

Many careers rely on individuals who have the capacity to create and implement public opinion surveys, and analyze the results of public opinion polls. Urban planning, public administration, and public policy professionals use surveys for program evaluation and democratic accountability, while lobbyists, nonprofit, campaign, and corporate government relations professionals use surveys for assessing public problems and the political environment. Students will gain experience building and fielding surveys that accurately assess public opinion, often while helping community stakeholders with real-world needs.

Prerequisites & Notes

None.

Credits: 3

POLS 329 - Political Learning

The course examines the process by which the transmission of political values, attitudes, perceptions and behaviors are undertaken in different political systems.

Credits: 3

POLS 333 - The Political Film

The Political Film will be presented as an expression of social concerns in our society. Individual films will be evaluated as vehicles, which can influence people by disseminating ideas, convey points of view and comment on matters of political controversy.

Credits: 3

POLS 349 - Utopian Experiments: Issues of Gender and Power

This course will examine the various alternative plans for the intentional restructuring of society as exhibited in the works of utopian theorists.

Credits: 3

POLS 350 - Transnational Terrorism

An examination of politics and practice of transnational terrorism, as well as alternative policy responses to transnational terrorism. topics will include an overview of the history and theory of terrorism as a political tactic, the issues motivating its use by contemporary terrorist organizations, the structure and tactics of terrorist networks, and the connections between states, terrorist networks, and transnational organized crime.

Credits: 3

POLS 351 - Politics of Race

This course is an exploration of whether and how racial and ethnic minorities are able to organize effectively and press their demands through the American political system. This course will focus on the political behavior of minority citizens, the relative strength and effect of these groups at the polls and in political office, the theory and practice of group formation as it applies to minority groups, the responsiveness of elected officials, and the legal and constitutional obstacles and instruments that provide context and shape these phenomena.

Credits: 3

POLS 354 - Seminar in Religion and Politics

This course is intended to help students understand the variety of religious voices in American politics and to acquaint students with the significance and variability of religious influence on contemporary American political life, i.e. public policy and individual political choices. The term "religion" is defined broadly to include formal theological creeds as well as the social beliefs, organizations, and subcultures associated with various religious communities. The central goal of this course is to understand how religion affects politics (and vice versa). Specifically, the course will explore the effects of the diverse religious traditions in America on American political history, voting, lobbying, political mobilization, political culture, and international engagement. A sampling of questions to be addressed follows: What has been the relative impact of various religions on American politics? How do religious actors translate their values into action? In what ways is the impact of religion direct? Indirect? How does the nature of the environment (domestic and international) affect the ability of religious actors to wield influence?

Credits: 3

POLS 356 - Gay and Lesbian Politics

This course will seek to understand how and why the battle over gay rights has come to occupy such a prominent place in our society and what this battle tells us about politics more generally. Although the course is centered on the politics of gay rights in the American context, we will also compare the American experience to those of other nations.

Credits: 3

POLS 357 - Civil Liberties and Civil Rights

A survey of current controversies regarding the rights and freedoms guaranteed to American citizens by the U.S. Constitution.

Prerequisites & Notes

None

Credits: 3

POLS 359 - Policy Analysis and Evaluation

An examination of the theoretical and practical issues associated with the application of analytic and evaluative techniques to selected public policy problems and programs.

Credits: 3

POLS 360 - Parties and Elections

An examination of the structures and functions of political parties in our electoral system.

Credits: 3

POLS 364 - Using Evidence to Solve Public Problems

Public decision makers increasingly call for evidence-based solutions to public problems. In this course, students will learn to assess and use data and evidence to help solve community problems. These skills provide the foundation of government relations, public service, nonprofit, and other careers relying on data-driven decision-making.

Prerequisites & Notes

None.

Credits: 3

POLS 365 - International Political Economy

The in-depth analysis of the political relationships among nation-states.

Prerequisites & Notes

Sophomore class standing

Credits: 3

POLS 367 - National and International Security: Problems and Issues

National security problems combine aspects of American government, international relations, game theory, and logistical problems derived from research development priorities, economics. The course introduces the major issues of our time such as arms control, disarmament, the nature of war, the reality of decision-making and various case studies.

Prerequisites & Notes

Sophomore class standing

Credits: 3

POLS 369 - Politics of Developing Areas

A developmental approach to the comparative study of the primary functions, structures and capabilities of various industrializing political systems such as India, China, Mexico, Brazil, Tanzania.

Prerequisites & Notes

Sophomore class standing

Credits: 3

POLS 370 - Latin American Politics and Development

This is an interdisciplinary course designed to give students a broad understanding of the historical, contemporary social (including gender, race, ethnicity, religion, etc.), economic, and in particular, political forces that shape Latin America. A number of different perspectives will be utilized to understand and explain the current state of Latin American political and economic development.

Credits: 3

POLS 372 - Campaign Management & Strategy

This course will provide a very practical, hands-on, blueprint for students who wish to run effectively and successfully for public office, or for students who hope to be effective and successful campaign managers or staffers. This course will consider campaigning from the perspective of both the candidate and the campaign manager, with a focus on developing and implementing a comprehensive campaign strategy.

Prerequisites & Notes

None.

Credits: 3

POLS 375 - Women and Politics

The course will examine the effect of socialization and the impact of culture on women, gender differences in patterns of political participation; legal, political and social rights of women; and the effects of the political system upon the lives of women and their families.

Credits: 3

POLS 390 - Experimental

A one time experimental course offering.

A unique and specifically focused course within the general purview of a department which intends to offer it on a “one time only” basis and not as a permanent part of the department’s curriculum.

Credits: 0

POLS 395 - workshop

Special topics of interest to undergraduates and selected members of the community.

A workshop is a program which is usually of short duration, narrow in scope, often non-traditional in content and format, and on a timely topic.

Credits: 1-3

POLS 398 - Selected Topics

The in-depth examination of a specific topic to be determined by the department in consultation with the instructor.

A **Selected Topics** course is a normal, departmental offering which is directly related to the discipline, but because of its specialized nature, may not be able to be offered on a yearly basis by the department.

Credits: 0

POLS 403 - Constitutional Law

The case study and analysis of the development and growth of constitutions through judicial interpretation.

Credits: 3

POLS 444 - Capstone: Political Analysis

An Examination of the theoretical and practical issues associated with the application of analytic and evaluative techniques to selected political institutions, behaviors, or policies. Students will be assessed on their accomplishment of outcomes expected of Political Science graduates.

Prerequisites & Notes

Students must have completed POLS 310- Research Methods

Credits: 3

POLS 450 - Internship

Varies

Credits: 12

POLS 451 - Harrisburg Internship

Assignment as an intern with a governmental agency in the state capital in Harrisburg, Pa. Open to all students at Slippery Rock University.

Prerequisites & Notes

Selection by competitive process

Credits: 12

POLS 452 - Harrisburg Internship Project

A research project developed by the intern and approved by the Harrisburg internship coordinator on some aspect of government activities or public policy.

Prerequisites & Notes

Selection for the Harrisburg Internship Program

Credits: 3

POLS 454 - Harrisburg Internship Seminar

Weekly seminar composed of all interns in the program and taught by the Harrisburg internship coordinator. Speakers from state government will address the seminar and the seminar will participate in several exercises designed to increase skills in governmental processes.

Prerequisites & Notes

Selection as intern in the Harrisburg Internship Program

Credits: 3

POLS 490 - Independent Study

In-depth reading and research in an area of particular interest to the student, with the guidance of a faculty member. Independent Study courses give students the opportunity to pursue research and/or studies that are not part of the university's traditional course offerings. Students work one on one or in small groups with faculty guidance and are typically required to submit a final paper or project as determined by the supervising professor.

Credits: 1 to 3

POLS 495 - Workshop

Special topics of interest to undergraduates and selected members of the community.

A workshop is a program which is usually of short duration, narrow in scope, often non-traditional in content and format, and on a timely topic.

Credits: 1 to 3

POLS 498 - Selected Topics

The in-depth examination of a specific topic to be determined by the department in consultation with the instructor.

A **Selected Topics** course is a normal, departmental offering which is directly related to the discipline, but because of its specialized nature, may not be able to be offered on a yearly basis by the department.

Credits: 0

PSYC 105 - Introduction to Psychology

This course serves as an introduction to the science of psychology. Psychological theory, concepts, and research spanning the breadth of the discipline are explored. Content will provide an introduction to research methods and ethics and include selected topics from each of the five domains of psychological inquiry: Biological, Cognitive, Development, Social and Personality, and Mental and Physical Health. Students will explore questions involving four themes that arise across the domains: Cultural and social diversity, Ethics, Variations in human functioning, and Applications.

Credits: 3

PSYC 139 - University Seminar

University Seminar serves as the entry point to the Slippery Rock University general education program. With its small seminar setting and strong faculty-student interaction, the course promotes intellectual inquiry, critical and creative thinking, and academic excellence. Through varied content, the course introduces students to academic discourse and information literacy while exploring topics such as diversity and inclusion and global awareness. This course will set students along the path to becoming engaged with issues and scholarship important to a 21st century education while they learn about themselves and their place in the world.

Credits: 3

PSYC 190 - Experimental

A unique and specifically focused course within the general purview of a department which intends to offer it on a "one time only" basis and not as a permanent part of the department's curriculum.

Credits: 3

PSYC 195 - Workshop

A workshop is a program which is usually of short duration, narrow in scope, often non-traditional in content and format, and on a timely topic.

Credits: 3

PSYC 198 - Selected Topic

A **Selected Topics** course is a normal, departmental offering which is directly related to the discipline, but because of its specialized nature, may not be able to be offered on a yearly basis by the department.

Credits: 3

PSYC 205 - Environmental Psychology

Man's interference with the environment, including over-population, isolation, social institutions as environments, noise, housing, community design, behavioral effects of pollutants and behavior genetics.

Prerequisites & Notes

A grade of C or higher in PSYC 105

Credits: 3

PSYC 208 - Personality

Review of the major historical and contemporary theoretical approaches to the study of personality, including their antecedents, underlying assumptions, research/evidential basis, influence on the field and relevance to the theory and practice of psychology.

Prerequisites & Notes

A grade of C or higher in PSYC 105

Credits: 3

PSYC 221 - Introduction to Behavioral Statistics

Introduction to descriptive and inferential statistics used in evaluation and reporting of behavioral research.

Prerequisites & Notes

A grade of C or higher in PSYC 105 and A grade of C or higher in MATH 152

Credits: 3

PSYC 231 - Psychological Science I: Research Methods

This project-based course introduces students to research methods and designs used in psychology. The course prepares students to evaluate published reports of psychological research and to design and conduct research studies in Psychology. Each student will apply concepts learned in a class to design and write a formal research proposal of an original experiment, which will be written in APA style.

Prerequisites & Notes

PSYC 105 with a grade of C or higher; and MATH 152/STAT 152 with a grade of C or higher; and ENGL 102 with a grade of C or higher; and INDS 110 or LIBR 110 with a grade of C or higher.

Credits: 3

PSYC 232 - Psychological Science II: Statistical Applications

This is a project-based course in which students apply knowledge of descriptive and inferential statistics to answer research questions in psychology. Topics include selection of appropriate descriptive and inferential statistics to use with descriptive, correlational, predictive, and experimental designs; planning statistical analysis; using statistical software to organize data and conduct analyses; interpreting results, and writing formal reports of research in APA style. Students will apply knowledge and skills learned in the course to write an APA style lab report of a quantitative study.

Prerequisites & Notes

PSYC 105 with a grade of C or higher; and ENGL 102 with a grade of C or higher; and MATH 152/STAT 152 with a

grade of C or higher; and INDS 110 or LIBR 110 with a grade of C or higher; and PSYC 231 with a grade of C or higher.

Credits: 3

PSYC 233 - Sensation & Perception

Basic anatomy, physiology and role of sensory systems in perception and sensation.

Prerequisites & Notes

A grade of C or higher in PSYC 105

Credits: 3

PSYC 240 - Human Sexual Behavior

Examines personal sociocultural factors in sexual functioning. Motivational, developmental, personality and clinical implications are explored.

Prerequisites & Notes

A grade of C or higher in PSYC 105

Credits: 3

PSYC 244 - Developmental Psychology

Human development from conception to senescence with emphasis on the theoretical and practical implications.

Prerequisites & Notes

A grade of C or higher in PSYC 105

Credits: 3

PSYC 276 - Introduction to Abnormal Psychology

Introduction to the field of abnormal behavior, including DSM classification and examination of major categories of mental disorders.

Prerequisites & Notes

A grade of C or higher in PSYC 105

Credits: 3

PSYC 289 - Positive Psychology

In this course, students will explore human flourishing - defined as a life of deep meaning, fulfillment and service to others. Students will be taught about human flourishing through the lens of science and their own experience. Through exposure to diverse scientific theories and research on the skills associated with flourishing and to a variety of reflective and applied practice, and laboratory experiences, students will develop conceptual knowledge, experiential insight, and practical skills related to living a "good life".

Prerequisites & Notes

Prerequisite: PSYC 105 min grade C.

Credits: 3

PSYC 290 - Experimental

A unique and specifically focused course within the general purview of a department which intends to offer it on a "one time only "basis and not as a permanent part of the department's curriculum.

Credits: 3

PSYC 295 - Workshop

A workshop is a program which is usually of short duration, narrow in scope, often non-traditional in content and format, and on a timely topic.

Credits: 3

PSYC 298 - Selected Topic

A **Selected Topics** course is a normal, departmental offering which is directly related to the discipline, but because of its specialized nature, may not be able to be offered on a yearly basis by the department.

Credits: 3

PSYC 300 - Psychology of Women, Gender and Culture

Overview of psychological perspectives and current research concerning the field of the psychology of women and gender. Topics related to the role of culture in the social construction of gender will be emphasized. Topics include similarities and differences between women and men, gender development, emotions, relationships, sexuality, education and work, health and fitness, psychological distress, and social roles.

Prerequisites & Notes

A grade of C or higher in PSYC 105 or any Gender Studies course, or permission from the instructor.

Credits: 3

PSYC 302 - Psychology of Criminal Behavior

The study of how individual criminal behavior is acquired, evoked, maintained and modified.

Prerequisites & Notes

A grade of C or higher in PSYC 105

Credits: 3

PSYC 303 - Learning

This lecture/lab course will facilitate a deeper understanding of the basic mechanisms of learning, which are expressed as changes in behavior that are altered by experience.

Prerequisites & Notes

A grade of C or higher in PSYC 231

Credits: 4

PSYC 304 - Theories of Counseling

This course will examine the major approaches to psychotherapy through critical review of the theoretical assumptions, historical influences, process and outcome research, techniques of intervention and relevant context for the major theoretical paradigms. Professional and ethical issues, contemporary topics and issues of fundamental conceptualization skill development will be addressed. This course does not prepare students to function as counselors; rather it is designed to provide meaningful preparation for pursuit of post-Baccalaureate training.

Prerequisites & Notes

PSYC 208, PSYC 276, and a grade of C or higher in PSYC 105.

Credits: 3

PSYC 306 - Introduction to Psychological Testing

Includes the historical, theoretical and statistical foundations of testing; exposure to ability (aptitude, achievement and intelligence) and personality tests; and the settings in which psychologists administer these tests.

Prerequisites & Notes

A grade of C or higher in PSYC 105 and a grade of C or higher in (PSYC 221 or PSYC 232).

Credits: 3

PSYC 310 - Introduction to Industrial-Organizational Psychology

The application of psychological theory, techniques, and research to business, industry, and other organizational behavior. Subjects include employee recruitment and selection, retention and promotion; job satisfaction; job evaluation/performance measures; training; motivation; stress; and human factors.

Prerequisites & Notes

A grade of C or higher in PSYC 105

Credits: 3

PSYC 311 - Introduction to Behavioral Neuroscience

Along with the Behavioral Neuroscience Laboratory (PSYC 312), this lecture and laboratory based course may help you develop a greater knowledge of the biological basis of human behavior. Topics may include neuroanatomy, neural communication, development of the nervous system, genetics, sensory and motor systems, emotion, learning and memory, language, sexual behavior, consciousness and neurological and psychological disorders.

Prerequisites & Notes

A grade of C or higher in PSYC 105; and a grade of C or higher in (PSYC 221 or PSYC 232); and a grade of C or

higher in (PSYC 325/326 or PSYC 231).

Credits: 3

PSYC 312 - Behavioral Neuroscience Laboratory

Along with the Introduction to Behavioral Neuroscience (PSYC 311) course, the laboratory course will provide students with an opportunity to design and conduct research to study brain structure, function and behavior. Emphasis is on hands-on participation in behavioral neuroscience techniques.

Prerequisites & Notes

Overall and major GPA 2.5 or higher; A grade of C or higher in PSYC 105; and a grade of C or higher in (PSYC 221 or PSYC 232); and a grade of C or higher in (PSYC 325/326 or PSYC 231).

Credits: 1

PSYC 315 - Psychology of Sexual and Gender Diversity

Overview of psychological perspectives and current research concerning the field of lesbian, gay, bisexual, transgender and queer psychology. The course takes a life-span developmental perspective and examines the diversity of gender and sexual identities. Topics include theories of sexual orientation and gender identity, oppression and discrimination, history of the Queer community and the coming out process.

Prerequisites & Notes

A grade of C or higher in PSYC 105, or any Gender Studies course, or permission of the instructor

Credits: 3

PSYC 318 - Psychopathy of Childhood and Adolescence

An overview of clinical practice with children, adolescents and their families with advanced study of the emergence, diagnosis and treatment of psychological disorders in children and adolescents. Coursework includes theories of normal and abnormal child development, etiology of disorders, current DSM diagnosis, and an overview of assessment and intervention methods relevant to children and adolescents.

Prerequisites & Notes

PSYC 105 with a grade of C or higher; and PSYC 276; and PSYC 244.

Credits: 3

PSYC 320 - Introduction to Clinical Psychology

Introduction to the field of clinical psychology. Includes an overview of training, similarities, and differences among various mental health service providers. Students will be introduced to interviewing skills, approaches to psychotherapy, assessment, treatment planning, and areas of specialization and application within the field. Emphasis is placed on consideration of issues that tend to arise when working with individuals from diverse backgrounds, including differences in racial and ethnic background, sex and gender, age, sexual orientation, religious background, and those with mental and physical disabilities.

Prerequisites & Notes

A grade of C or higher in PSYC 105; and a grade of C or higher in (PSYC 221 or PSYC 232); a grade of C or higher in (PSYC 325/326 or PSYC 231); and a grade of C or higher in PSYC 276.

Credits: 3

PSYC 321 - Drugs and Behavior

Psychoactive drugs and their action on the human nervous system; legal and sociocultural aspects of drug abuse.

Prerequisites & Notes

A grade of C or higher in PSYC 105

Credits: 3

PSYC 325 - Introduction to Experimental Psychology

This course will teach students how to design, conduct, and report psychological research. Topics include the nature of science, formulation of hypotheses, research methods and design, and ethical issues in using human and nonhuman subjects. Emphasis will be given to experimental design techniques, evaluation of published research in psychology, and the writing of research reports. The course will also focus on the teaching of library research skills and producing formal research reports in APA manuscript style

Prerequisites & Notes

A grade of C or higher in PSYC 105 and PSYC 221; and INDS 110 and ENGL 102.

Co-requisite: PSYC 326.

Credits: 3

PSYC 326 - Experimental Psychology Laboratory

A laboratory experience to accompany PSYC 325 in which students will conduct a series of literature searches, design and execute laboratory experiments, perform and interpret statistical analyses of data collected, and report experimental findings in APA style.

Prerequisites & Notes

A grade of C or higher in PSYC 105 and PSYC 221; and INDS 110 and ENGL 102.

Co-requisite: PSYC 325

Credits: 1

PSYC 334 - Health Psychology

An overview of the field and of the role of psychology in health. Topics include health-enhancing and health-compromising behaviors; the effects of stress, coping, and personality on health; psychoneuroimmunology; treatments of specific problems and disorders; and interacting with health care services.

Prerequisites & Notes

A grade of C or higher in PSYC105; and a grade of C or higher in (PSYC 221 or PSYC 232); and a grade of C or

higher in (PSYC325/326 or PSYC 231); or permission of the instructor.

Credits: 3

PSYC 338 - Cognitive Psychology

A survey of theories and facts related to complex information processing and conscious experience in humans. Topics covered will include attention, memory, problem solving, symbolic processes and human consciousness.

Prerequisites & Notes

A grade of C or higher in PSYC 105; and a grade of C or higher in (PSYC 221 or PSYC 232); and a grade of C or higher in (PSYC 325/326 or PSYC 231).

Credits: 3

PSYC 350 - Contemporary Topics in Psychological Science

Contemporary topics In Psychology are critically examined. Specific topics will vary within the major subfields of Psychology: Clinical/Counseling; Cognitive; Developmental; Environmental; Experimental/Quantitative; Forensic; Gender/Sexual Identity; Health; Industrial-Organizational; Multicultural; Neuroscience; Positive; Rehabilitation; Social; Sport/Performance.

Prerequisites & Notes

Prerequisite: A grade of C or higher in PSYC 105

Credits: 1

PSYC 360 - History of Psychology

A review of the philosophical and natural science antecedents to the science of psychology and the development of psychological paradigms from our origins to the present, including attention to the interactive influence of world events/psychology. The historical perspective allows students to understand the relationships between different fields in psychology.

Prerequisites & Notes

A grade of C or higher in PSYC 105; Jr/Sr Standing

Credits: 3

PSYC 364 - Child and Adolescent Development

Intensive study of the biosocial, cognitive, and psychosocial aspects of development of children and adolescents.

Prerequisites & Notes

PSYC 105 with a grade of C or higher; and (PSYC 344 or PSYC 244).

Credits: 3

PSYC 365 - Psychology of Aging

Psychosocial, clinical and developmental aspects of aging, implications of optimal developmental and effective management of problems confronting the aged.

Prerequisites & Notes

A grade of C or higher in PSYC 105; and a grade of C or higher in (PSYC 325/326 or PSYC 232 and PSYC 231); and a grade of C or higher in (PSYC 344 or PSYC 244).

Credits: 3

PSYC 375 - Psychopathology of Adulthood

Advanced study of adult mental disorders, including symptoms, phenomenological aspects, diagnosis, and treatment. Students will examine the etiology, symptom constellations, and treatment of psychological disorders in depth and begin to understand what people with the disorders experience through various stages of adulthood. Psychological theory and research findings will guide the student in gaining an understanding of mental illness.

Prerequisites & Notes

Psychology majors only.

A grade of C or higher in PSYC 105; and PSYC 244; and PSYC 276.

Credits: 3

PSYC 377 - Social Psychology

The psychological implications of our social existence; a study of the social forces affecting human behavior.

Prerequisites & Notes

A grade of C or higher in PSYC 105

Credits: 3

PSYC 390 - Experimental

A unique and specifically focused course within the general purview of a department which intends to offer it on a "one time only" basis and not as a permanent part of the department's curriculum.

Credits: 3

PSYC 392 - Cross Cultural Psychology

This course will introduce and familiarize students with the concept of cross-cultural psychology by examining the extent to which the theories, principles, and knowledge of the discipline of psychology are universally applicable to humans. The goal of exploring the psychological implications of cultural differences and of contact among members of different cultures is to consider the role which psychological research and theory can play in advancing intercultural understanding.

Prerequisites & Notes

Grade of C or higher in PSYC 105; and PSYC 377.

Credits: 3

PSYC 395 - Workshop

A workshop is a program which is usually of short duration, narrow in scope, often non-traditional in content and format, and on a timely topic.

Credits: 3

PSYC 398 - Selected Topic

A **Selected Topics** course is a normal, departmental offering which is directly related to the discipline, but because of its specialized nature, may not be able to be offered on a yearly basis by the department.

Credits: 3

PSYC 415 - Multicultural Identity Development

This course examines biological, psychological and social influences on identity formation through the lifespan with a focus on intersectionality of identities such as race, gender, sexual orientation, class and disability.

Prerequisites & Notes

PSYC 105 with a grade of C or higher; and (PSYC 344 or PSYC 244) with a grade of C or higher.

Credits: 3

PSYC 420 - Community Service Practicum in Psychology

160 hours of documented, relevant volunteer placement in an approved public, not for profit, or private agency. A formal paper related to the experience is required to assist the student with meaningful integration of the experience.
Course grading: Pass/No Credit

Prerequisites & Notes

Overall GPA of 2.0 and Psychology GPA of 2.5; and a grade of C or higher in PSYC 105; and a grade of C or higher in PSYC 232; and a grade of C or higher in PSYC 231; and at least 12 credits in Psychology; and written application and departmental permission.

Credits: 3

PSYC 421 - Advanced Behavioral Statistics

Intermediate forms of statistical analysis of behavioral research, their rationale, and computer applications are introduced.

Prerequisites & Notes

A grade of C or higher in PSYC 105, PSYC 221, and PSYC 325/326

Credits: 3

PSYC 428 - Social and Emotional Development Across the Lifespan

This course uses a lifespan theoretical perspective to examine social and emotional influences on social relationships (e.g., parent-child, sibling, grandparent-grandchild, romantic) with an emphasis on the socio-historical context and the influence of intersecting identity factors (e.g., age and race).

Prerequisites & Notes

PSYC 105 with a grade of C or higher; and (PSYC 244 or PSYC 344) with a grade of C or higher.

Credits: 3

PSYC 430 - Research Practicum in Psychology

Supervised research experience with Psychology department faculty member. Students identify a mentor and work together with their mentor to develop and implement a research plan, and write an APA style paper reporting the results.

Prerequisites & Notes

Overall and Psychology GPA of 3.0; and a grade of C or higher in PSYC 105; and a grade of C or higher in PSYC 232; and a grade of C or higher in PSYC 231; and at least 12 additional credits in Psychology, and written application and departmental permission.

Credits: 3

PSYC 445 - Infant and Child Cognition

This course examines theories and research in cognitive development with an emphasis on infancy and early childhood. Piagetian, Vygotskian, Information-processing, and Dynamic Systems Approaches are explored while examining the development of processes including attention, perception, memory, language, and reasoning. In addition to learning about theories and research findings in the field, students will (1) become familiar with the research methods employed by psychologists to study cognitive development; (2) think critically about current cognitive developmental questions; and (3) apply cognitive developmental findings to real world contexts.

Prerequisites & Notes

PSYC 105 with a grade of C or higher; and (PSYC 244 or PSYC 344) with a grade of C or higher; and PSYC 338 with a grade of C or higher.

Credits: 3

PSYC 449 - Seminar in Psychology

Advanced topics will be announced in the schedule.

Prerequisites & Notes

9 credits of Psychology or permission of the instructor

Credits: 3

PSYC 450 - Field Placement Internship in Psychology

Supervised placement in selected public and private agencies at appropriate institutions. Students are required to co-register for Senior Integration Seminar (PSYC 485) in order to synthesize the experience.

Prerequisites & Notes

Overall GPA of 2.0 and Psychology GPA of 2.5; and a grade of C or higher in PSYC 105; and a grade of C or higher in PSYC 232; and a grade of C or higher in PSYC 231; and at least 15 additional credits in Psychology, written application and departmental permission.

Co-requisite: PSYC 485

Credits: 6

PSYC 451 - Research Capstone Internship

This course is designed to provide an immersion experience in undergraduate research in laboratory or clinical settings. Under supervision of a SRU psychology faculty member, the student will integrate concepts gleaned from prerequisite undergraduate courses and scientific knowledge. Psychology theory, research methods, and statistical applications will be applied to prepare students who are planning to pursue careers in research in psychology related fields or to further their education in graduate programs in all psychology related fields, neuroscience, and professional programs such as physician assistant, occupational therapy, and medical schools.

Prerequisites & Notes

Declared major; Junior or Senior standing; Overall GPA of 2.0; Psychology GPA of 3.0; a grade of C or higher in Psych 105, PSYC 231 or PSYC 325/26, and PSYC 232 or PSYC 221; written application and departmental permission.

Credits: 3 to 6

PSYC 475 - Behavior Modification

Application of learning and other psychological principles in behavior therapy.

Prerequisites & Notes

A grade of C or higher in PSYC 105

Credits: 3

PSYC 476 - Clinical Neuroscience

This course surveys the role of neural mechanisms on the development, diagnosis and treatment of psychological disorders. The biological basis of neurological and psychiatric disorders will be explored using integrative approach that includes genetics, neuroanatomy, chemistry and physiology, development, environment, behavior, culture and evolution.

Prerequisites & Notes

PSYC 276 with a C or higher; and (PSYC 325/326 with a C or higher) or (PSYC 231 and PSYC 232 with a C or higher); and PSYC 311 with a B or higher; and PSYC 312 with a B or higher.

Credits: 3

PSYC 477 - Developmental Neuroscience

This course explores the biology of behavioral development and the integration of organismic and environmental process that regulate the development of the brain and behavior. Topics will include phases of ontogeny including prenatal, perinatal, early childhood, adolescent, adult and aging brain development, sensitive and critical periods, the role of environment, genetics and child-parent interactions on brain development and implications of neuroscience research on assessment and intervention.

Prerequisites & Notes

PSYC 276 with a C or higher; and PSYC 325/326 or PSYC 231 and PSYC232 with a C or higher; and (PSYC 344 or PSYC 244) with a C or higher; and PSYC 311 with a B or higher; and PSYC 312 with a B or higher.

Credits: 3

PSYC 480 - Behavior Management

Principles, methods and ethics of behavior management in community, industrial and/or congregate facilities.

Prerequisites & Notes

A grade of C or higher in PSYC 105, plus PSYC 303

Credits: 3

PSYC 485 - Senior Integration Seminar

This course integrates knowledge and skills acquired through the psychology curriculum and during the Field Placement Internship in Psychology with didactic experiences that facilitate learning and synthesis of information. Students are required to be co-enrolled with Field Placement Internship in Psychology (PSYC 450).

Prerequisites & Notes

A grade of C or higher in PSYC 105; and a grade of C or higher in (PSYC 221 or PSYC 232); and a grade of C or higher in (PSYC 325/326 or PSYC 231); and at least 5 core electives, written application and departmental permission. Co-requisite: PSYC 450

Credits: 3

PSYC 490 - Independent Study

Propose and complete a supervised project, either historical, theoretical or experimental. Independent Study courses give students the opportunity to pursue research and/or studies that are not part of the university's traditional course offerings. Students work one on one or in small groups with faculty guidance and are typically required to submit a final paper or project as determined by the supervising professor.

Prerequisites & Notes

Permission of the instructor, departmental chairperson and dean of the college where the study will be conducted

Credits: 1 to 3

PSYC 495 - Workshop

A workshop is a program which is usually of short duration, narrow in scope, often non-traditional in content and format, and on a timely topic.

Credits: 3

PSYC 498 - Selected Topic

A **Selected Topics** course is a normal, departmental offering which is directly related to the discipline, but because of its specialized nature, may not be able to be offered on a yearly basis by the department.

Credits: 3

PSYC 590 - Experimental

A unique and specifically focused course within the general purview of a department which intends to offer it on a "one time only" basis and not as a permanent part of the department's curriculum.

Credits: 3

PSYC 595 - Workshop

Varies.

Credits: 3

PSYC 598 - Selected Topic

Varies.

Credits: 3

RCTH 120 - Inclusive Leisure Services

This course is designed to introduce the student to inclusive leisure services. The course reviews attitudes regarding people with disabilities, barriers to inclusion, enabling terminology, and legislative initiatives, which promote inclusion. The ADA will be highlighted along with information on various disabling conditions. The goal of this course is to facilitate an increased awareness of people with disabilities and considerations for providing inclusive services.

Credits: 3

RCTH 139 - University Seminar

University Seminar serves as the entry point to the Slippery Rock University general education program. With its small seminar setting and strong faculty-student interaction, the course promotes intellectual inquiry, critical and creative thinking, and academic excellence. Through varied content, the course introduces students to academic discourse and information literacy while exploring topics such as diversity and inclusion and global awareness. This course will set students along the path to becoming engaged with issues and scholarship important to a 21st century education while they learn about themselves and their place in the world.

Prerequisites & Notes

None

Credits: 3

RCTH 190 - Experimental

A unique and specifically focused course within the general purview of a department which intends to offer it on a "one time only " basis and not as a permanent part of the department's curriculum.

Prerequisites & Notes

None

Credits: 1 to 3

RCTH 195 - Workshop

A workshop is a program which is usually of short duration, narrow in scope, often non-traditional in content and format, and on a timely topic.

Credits: 3

RCTH 198 - Selected Topics

A **Selected Topics** course is a normal, departmental offering which is directly related to the discipline, but because of its specialized nature, may not be able to be offered on a yearly basis by the department.

Credits: 3

RCTH 220 - Recreational Therapy Services

Introduces students to the general field of recreational therapy and provides an introduction to various disabilities and how the RT process applies.

Prerequisites & Notes

RCTH 120

Credits: 3

RCTH 232 - Recreational Therapy for People with Physical Disabilities

This course will provide information on various physical disabilities and the potential application of Recreational Therapy services with individuals with physical disabilities. The incidence, prevalence, etiology and treatment for each disability will be presented along with implications for RT practice.

Prerequisites & Notes

RCTH 120

Credits: 3

RCTH 233 - Recreational Therapy for People with Psychosocial and Mental Disorders

This course will provide information on various mental health impairments and addictive and social disorders. The incidence, prevalence, etiology and treatment for each condition will be presented along with implications for Recreational Therapy practice.

Prerequisites & Notes

RCTH 120

Credits: 3

RCTH 252 - Equine Assisted Activities

An introduction to equine assisted activities including basic safety skills, lesson preparation, benefits for individuals with disabilities, tack/equine selection, and certification procedures. Students will gain practical experience through riding horses and assisting individuals with disabilities during lessons.

Prerequisites & Notes

None

This course is cross-listed with PE 250

Credits: 3

RCTH 290 - Experimental

A unique and specifically focused course within the general purview of a department which intends to offer it on a "one time only" basis and not as a permanent part of the department's curriculum.

Prerequisites & Notes

None

Credits: 1 to 3

RCTH 295 - Workshop

A workshop is a program which is usually of short duration, narrow in scope, often non-traditional in content and format, and on a timely topic.

Credits: 3

RCTH 298 - Selected Topics

A **Selected Topics** course is a normal, departmental offering which is directly related to the discipline, but because of its specialized nature, may not be able to be offered on a yearly basis by the department.

Credits: 3

RCTH 305 - Animal-Assisted Therapy for Diverse Populations & Settings

This course is designed to provide students with an overview of the various populations that can potentially benefit from Animal-Assisted Interventions (AAI) and Animal-Assisted Therapy (AAT). The focus will be on how these potential benefits of AAT can be incorporated into various settings of service. Students will learn the different approaches to using animals as a partner in facilitating therapeutic outcomes. Students will be exposed to research evidence that supports AAT with populations generally served by health and human services areas. The design of program/treatment plans to facilitate outcomes will be incorporated into the course as well as practical application of AAT.

Prerequisites & Notes

None

Credits: 3

RCTH 314 - Clinical Aspects of Recreational Therapy

This course provides a more in-depth look at Recreational Therapy including professional standards of practice, health care accreditation, documentation methods, application of activity analysis in treatment planning. Lab experiences are incorporated into the course.

Prerequisites & Notes

RCTH 220

Credits: 3

RCTH 317 - Organization and Management of Recreational Therapy Practice

This course designed to facilitate the development of student knowledge and skills related to the RT assessment process. The course will expose students to information and activities to enhance understanding of the importance of assessment, the various domains of assessment and the various techniques used in the assessment process. Skills will be developed in the areas of selecting and designing assessments, interviewing clients, observing behaviors and documenting assessment results.

Prerequisites & Notes

RCTH 220

Credits: 3

RCTH 319 - Client Assessment in Recreational Therapy

This course designed to facilitate the development of student knowledge and skills related to the RT assessment process. The course will expose students to information and activities to enhance understanding of the importance of assessment, the various domains of assessment and the various techniques used in the assessment process. Skills will be developed in the areas of selecting and designing assessments, interviewing clients, observing behaviors and documenting assessment results.

Prerequisites & Notes

RCTH 220 and RCTH 314

Credits: 3

RCTH 320 - Recreational Therapy Program Design

This course focuses on techniques of recreational therapy program planning interventions and leadership strategies to meet the needs of persons with disabilities and disorders.

Prerequisites & Notes

RCTH 220, 314 and 319 or permission of the instructor

Credits: 3

RCTH 351 - Recreational Therapy Practicum

Observation and participation in parks and recreation or environmental education activities. Cross listed as RCTH 352.

Prerequisites & Notes

Permission of the instructor.

Credits: 3

RCTH 352 - Practicum

Observation and participation in parks and recreation or environmental education activities. Cross listed as RCTH 351.

Prerequisites & Notes

Permission of the instructor

Credits: 3

RCTH 390 - Experimental

A unique and specifically focused course within the general purview of a department which intends to offer it on a "one time only" basis and not as a permanent part of the department's curriculum.

Credits: 3

RCTH 395 - Workshop

A workshop is a program which is usually of short duration, narrow in scope, often non-traditional in content and format, and on a timely topic.

Credits: 3

RCTH 398 - Selected Topics

A **Selected Topics** course is a normal, departmental offering which is directly related to the discipline, but because of its specialized nature, may not be able to be offered on a yearly basis by the department.

Credits: 3

RCTH 415 - Challenges and Trends in Recreational Therapy

An integrative course for detailed study of current issues in parks and recreation with emphasis on unique and imaginative solutions to the challenges facing the recreation/parks profession. Must be a senior to enroll.

Credits: 3

RCTH 420 - Recreational Therapy for Older Adults

An overview of the aging process as it relates to recreational therapy service provision and leisure participation. Focus is on the developmental issues, including psychosocial, biological and economic issues in later life. The course reviews the various settings of service and care continuums available to serve the older adult populations. Legislative and regulatory influences regarding the provision of services to older adults will be discussed.

Prerequisites & Notes

RCTH 120, 220 or permission of the instructor.

Credits: 3

RCTH 422 - Recreational Therapy Interventions I

An investigation of the historical, philosophical, psychological and educational foundations of leisure education and stress management at RT treatment modalities. The functions of leisure education, including a variety of instruments and techniques appropriate for a variety of publics, are examined. The functions of stress management treatments, as well as a variety of techniques appropriate for a variety of publics, is also examined.

Prerequisites & Notes

RCTH 220, 314, 319 and 320

Credits: 3

RCTH 423 - Recreational Therapy Interventions II

This course will offer an overview of several different Recreational Therapy interventions and techniques, with emphasis on evidence-based practice specific to the areas of community reintegration and its many components, including areas such as social skills, mobility training, and money management (as examples).

Prerequisites & Notes

RCTH 220, 232, 233, 314, 319 and 320 or permission of the instructor

Credits: 3

RCTH 450 - Internship

A supervised off-campus work experience in an appropriate aspect of parks and recreation or environmental education work. Open only to RCTH majors with advanced standing.

Credits: 12

RCTH 490 - Independent Study

A special study opportunity for students to investigate in-depth, approved topics in recreation or environmental studies. Topic and credit established by student and supervising instructor.

Independent Study courses give students the opportunity to pursue research and/or studies that are not part of the university's traditional course offerings. Students work one on one or in small groups with faculty guidance and are typically required to submit a final paper or project as determined by the supervising professor.

Prerequisites & Notes

Permission of the instructor, departmental chairperson and dean of the college where the study will be conducted.

Credits: 1 to 3

RCTH 491 - Professional Seminar

This course is designed to assist students in preparing for entry into the environmental education profession. Topics will include career planning, employment opportunities, employment seeking skills, and discussions centering on areas of interest to the student.

Credits: 1

RCTH 495 - Workshop

A workshop is a program which is usually of short duration, narrow in scope, often non-traditional in content and format, and on a timely topic.

Credits: 3

RCTH 498 - Selected Topics

A **Selected Topics** course is a normal, departmental offering which is directly related to the discipline, but because of its specialized nature, may not be able to be offered on a yearly basis by the department.

Credits: 3

RUSS 101 - Russian Language and Culture I

This course is the first in a three course series which will provide an introduction to the Russian language.

Credits: 3

RUSS 102 - Russian Language and Culture II

This course is the second in a three course series which will provide an introduction to the Russian language.

Prerequisites & Notes

RUSS 101 or the equivalent

Credits: 3

RUSS 103 - Russian Language and Culture III

This course is the third in three course series which will provide an introduction to the Russian language.

Prerequisites & Notes

RUSS 102 or equivalent

Credits: 3

RUSS 190 - Experimental

A unique and specifically focused course within the general purview of a department which intends to offer it on a "one time only" basis and not as a permanent part of the department's curriculum.

Credits: 3

RUSS 195 - Workshop

A workshop is a program which is usually of short duration, narrow in scope, often non-traditional in content and format, and on a timely topic.

Credits: 3

RUSS 198 - Selected Topic

A **Selected Topics** course is a normal, departmental offering which is directly related to the discipline, but because of its specialized nature, may not be able to be offered on a yearly basis by the department.

Credits: 3

RUSS 202 - Intermediate Russian I

Comprehensive review of Russian grammar with emphasis on developing the students' abilities for proficient oral and written accomplishments.

Prerequisites & Notes

RUSS 103

Credits: 3

RUSS 210 - Russian Literature in Translation

A study of representative Russian literary works from its origins to 1917. Course is taught in English; no knowledge of Russian required.

Credits: 3

RUSS 270 - Study in the Republic of Russia

This course is designed for students who desire to study modern Russia first-hand. Students will study modern Russian economy, housing, the political system, history, and information on Russia while traveling in the Republic of Russia.

Prerequisites & Notes

ENGL 102 or equivalent

Credits: 1 to 3

RUSS 290 - Experimental

A unique and specifically focused course within the general purview of a department which intends to offer it on a "one time only" basis and not as a permanent part of the department's curriculum.

Credits: 3

RUSS 295 - Workshop

A workshop is a program which is usually of short duration, narrow in scope, often non-traditional in content and format, and on a timely topic.

Credits: 3

RUSS 298 - Selected Topic

A **Selected Topics** course is a normal, departmental offering which is directly related to the discipline, but because of its specialized nature, may not be able to be offered on a yearly basis by the department.

Credits: 3

RUSS 301 - Advanced Russian 1

A detailed course designed to give the student a valid structural knowledge of Russian. A study of the finer points of modern Russian usage.

Prerequisites & Notes

RUSS202 or equivalent

Credits: 3

RUSS 302 - Advanced Russian 2

An advanced course in the study of Russian grammar designed to improve vocabulary, idiomatic usage, reading skills, and individual style.

Prerequisites & Notes

RUSS301

Credits: 3

RUSS 305 - Russian Civilization via Film

A comprehensive analysis of Russian civilization through the media of Russian film. Russian films with subtitles present all major aspects of Russian civilization: the Tatar yoke, Russian expansion, the rise of Muscovy, the social-economic-political conflicts at various levels of tsarism, communication and post-communism. No prerequisite

Credits: 3

RUSS 306 - The Challenge of Russian Legacy

A broad study of the social, political, historical, economic, and cultural situations of modern Russian from 1917 to the present. Course is offered in English and is open to all interested students.

Credits: 3

RUSS 390 - Experimental

A unique and specifically focused course within the general purview of a department which intends to offer it on a "one time only" basis and not as a permanent part of the department's curriculum.

Credits: 3

RUSS 395 - Workshop

A workshop is a program which is usually of short duration, narrow in scope, often non-traditional in content and format, and on a timely topic.

Credits: 3

RUSS 398 - Selected Topic

A **Selected Topics** course is a normal, departmental offering which is directly related to the discipline, but because of its specialized nature, may not be able to be offered on a yearly basis by the department.

Credits: 3

RUSS 490 - Independent Study

Students have an opportunity to study selected areas in greater concentration.

Independent Study courses give students the opportunity to pursue research and/or studies that are not part of the university's traditional course offerings. Students work one on one or in small groups with faculty guidance and are typically required to submit a final paper or project as determined by the supervising professor.

Prerequisites & Notes

Permission of the instructor, departmental chairperson and dean of the college where the study will be conducted

Credits: 1 to 3

RUSS 495 - Workshop

A workshop is a program which is usually of short duration, narrow in scope, often non-traditional in content and format, and on a timely topic.

Credits: 3

RUSS 498 - Selected Topic

A **Selected Topics** course is a normal, departmental offering which is directly related to the discipline, but because of its specialized nature, may not be able to be offered on a yearly basis by the department.

Credits: 3

SAFE 118 - Introduction to Safety

Examines basic safety practices, incident causal factors, and preventative measures.

Credits: 3

SAFE 139 - University Seminar

University Seminar serves as the entry point to the Slippery Rock University general education program. With its small seminar setting and strong faculty-student interaction, the course promotes intellectual inquiry, critical and creative thinking, and academic excellence. Through varied content, the course introduces students to academic discourse and information literacy while exploring topics such as diversity and inclusion and global awareness. This course will set students along the path to becoming engaged with issues and scholarship important to a 21st century education while they learn about themselves and their place in the world.

Credits: 3

SAFE 190 - Experimental

A unique and specifically focused course within the general purview of a department which intends to offer it on a "one time only" basis and not as a permanent part of the department's curriculum.

Credits: 1 to 3

SAFE 195 - Workshop

A workshop is a program which is usually of short duration, narrow in scope, often non-traditional in content and format, and on a timely topic.

SAFE 198 - Selected Topics

A **Selected Topics** course is a normal, departmental offering which is directly related to the discipline, but because of its specialized nature, may not be able to be offered on a yearly basis by the department.

SAFE 205 - First Aid and Safety

Emphasizes prevention, protection from further harm and correct response to common emergencies resulting from trauma and/or illness confronting the citizen. Provides opportunity to earn certification in American Red Cross First Aid and American Red Cross CPR or American Health Association CPR.

Credits: 3

SAFE 218 - Legislative Compliance - General Industry

Examines workplace hazards as they relate to the Occupational Safety and Health Act and promulgated standards (Labor).

Prerequisites & Notes

Course Title changed from *Hazard Analysis and Legislative Compliance* in Summer 2015

Credits: 3

SAFE 228 - Motor Transportation Fleet Safety

Focuses on the essential elements of a comprehensive motor transportation fleet safety program as they relate to protecting and conserving enterprise resources.

Prerequisites & Notes

Course number change from SAFE 428 to SAFE 228 in Summer 2015

Credits: 3

SAFE 248 - Hazardous Materials and Waste Management

Examines the recognition, evaluation, control, and legislative compliance of hazardous materials and waste through effective safety management.

Prerequisites & Notes

CHEM 104 or 107 or permission of the instructor

Course number change from SAFE 348 to SAFE 248 in Summer 2015

Credits: 3

SAFE 258 - Construction Safety

Safety requirements and responsibilities for the construction industry.

Prerequisites & Notes

Course number change from SAFE 358 to SAFE 258 in Summer 2015

Credits: 3

SAFE 290 - Experimental

A unique and specifically focused course within the general purview of a department which intends to offer it on a "one time only" basis and not as a permanent part of the department's curriculum.

SAFE 295 - Workshop

A workshop is a program which is usually of short duration, narrow in scope, often non-traditional in content and format, and on a timely topic.

SAFE 298 - Selected Topic

A **Selected Topics** course is a normal, departmental offering which is directly related to the discipline, but because of its specialized nature, may not be able to be offered on a yearly basis by the department.

SAFE 318 - Principles of Industrial Hygiene

Concentrates upon the recognition, evaluation and control of employee-related workplace health hazards. Course includes an instrumentation component.

Prerequisites & Notes

CHEM 104 or 107 or permission of the instructor

Credits: 3

SAFE 319 - Principles of Industrial Hygiene II

Concentrates upon the recognition, evaluation and control of employee-related workplace hazards. Course includes an instrumentation component. Course is a continuation of SAFE318.

Prerequisites & Notes

SAFE 318

Credits: 3

SAFE 328 - Comprehensive Emergency Management and Fire Services

Examines comprehensive emergency management and fire services as they relate to preparing, preparing, protecting, and preserving resources.

Credits: 3

SAFE 338 - Ergonomics and Human Factors

Examines workplace design adversities as well as their remediation by the safety function.

Credits: 3

SAFE 368 - Injury and Damage Incidents Evaluation

Focuses on the investigation, analysis, and evaluation of injury and property damage incidents. Includes Workers' Compensation and insurance variations.

Credits: 3

SAFE 378 - Energy Exploration and Generation Safety

This course examines the safety management of energy exploration and energy generation safety.

Prerequisites & Notes

SAFE 118 and SAFE 218 or Permission of Instructor

Credits: 3

SAFE 390 - Experimental

A unique and specifically focused course within the general purview of a department which intends to offer it on a "one time only" basis and not as a permanent part of the department's curriculum.

SAFE 395 - Workshop

A workshop is a program which is usually of short duration, narrow in scope, often non-traditional in content and format, and on a timely topic.

SAFE 398 - Selected Topics

A **Selected Topics** course is a normal, departmental offering which is directly related to the discipline, but because of its specialized nature, may not be able to be offered on a yearly basis by the department.

SAFE 408 - Contemporary Safety Topics and Issues

Examines emerging issues and topics in the field of safety. Must be taken the semester prior to internship.

Credits: 3

SAFE 418 - Security in the Workplace

Examines security in relation to protecting assets and resources within an enterprise.

Credits: 3

SAFE 448 - Management and Integration of Safety

Involves the development, integration, evaluation, management, and cost containment strategies of the safety function within an enterprise.

Credits: 3

SAFE 450 - Internship

Provides opportunity to apply theory and develop competencies through a work-related experience in an appropriate cooperating enterprise. Summers only.

Prerequisites & Notes

Program/major specified requirements and/or approval of instructor
Internship requirements are available from the Department of Safety Management

Credits: 12

SAFE 478 - Environmental Permitting and Sustainability

This course examines the role of Safety Management in assessment of environmental regulations and permitting and application of sustainability practices.

Prerequisites & Notes

SAFE 118 and SAFE 218 or Permission of Instructor

Credits: 3

SAFE 488 - Safety Training and Development

Examines workplace safety training and development as they relate to employer work task performance at all levels of an organization.

Credits: 3

SAFE 490 - Independent Study

Students study under the supervision of a professor on a specific and significant topic. Independent Study courses give students the opportunity to pursue research and/or studies that are not part of the university's traditional course offerings. Students work one on one or in small groups with faculty guidance and are typically required to submit a final paper or project as determined by the supervising professor.

Prerequisites & Notes

Permission of the instructor, departmental chairperson, and dean of the college where the study will be conducted.

Credits: 1 to 6

SAFE 495 - Workshop

A workshop is a program which is usually of short duration, narrow in scope, often non-traditional in content and format, and on a timely topic.

SAFE 498 - Selected Topics

A **Selected Topics** course is a normal, departmental offering which is directly related to the discipline, but because of its specialized nature, may not be able to be offered on a yearly basis by the department.

Credits: 1 to 3

SCI 101 - Science of Life

A one semester foundational science course intended to provide students with: 1. An understanding of the scientific process; 2. Fundamental scientific literacy; 3. Background knowledge in biological and chemical concepts; 4. An understanding of how to collect, analyze, and interpret scientific data. This course is a combined lecture and lab course that will cover contemporary issues directly within the fields of biology and chemistry.

Prerequisites & Notes

None.

Credits: 3

SCI 102 - Understanding the Physical World

A one semester foundational science course intended to provide students with: 1. An understanding of the scientific process; 2. Fundamental scientific literacy; 3. Foundational knowledge in geology, environmental science, space science, and physics concepts; 4. An understanding of how to collect, analyze, and interpret scientific data. A combined lecture and lab course that will explore contemporary issues directly related to geology, environmental science, space science, and physics.

Prerequisites & Notes

None.

Credits: 3

SEFE 139 - University Seminar

University Seminar serves as the entry point to the Slippery Rock University general education program. With its small seminar setting and strong faculty-student interaction, the course promotes intellectual inquiry, critical and creative thinking, and academic excellence. Through varied content, the course introduces students to academic discourse and information literacy while exploring topics such as diversity and inclusion and global awareness. This course will set students along the path to becoming engaged with issues and scholarship important to a 21st century education while they learn about themselves and their place in the world.

Credits: 3

SEFE 190 - Experimental

A unique and specifically focused course within the general purview of a department which intends to offer it on a "one time only" basis and not as a permanent part of the department's curriculum.

SEFE 195 - Workshop

A workshop is a program which is usually of short duration, narrow in scope, often non-traditional in content and format, and on a timely topic.

SEFE 198 - Selected Topic

A **Selected Topics** course is a normal, departmental offering which is directly related to the discipline, but because of its specialized nature, may not be able to be offered on a yearly basis by the department.

SEFE 200 - Introduction to Education, Teaching Methods and Field

This course is designed to introduce the student to the field of education. Topics covered include: the role of the teacher, structure and organization of schooling, and current issues and concerns relating to education.

Credits: 3

SEFE 230 - Production and Utilization of Instructional Technology

Selection, utilization and production of instructional materials. Equipment operation via self-instruction in the Media Lab.

Credits: 3

SEFE 245 - Middle Level Learning Theory

This course provides pre-service teachers with a knowledge base of the learning theories, with a special focus on the application of the psychological learning theories to the teaching and learning of the adolescent learner.

Credits: 3

SEFE 250 - Pre, Early, & Adolescent Development

An analysis of the physical, social, emotional, cognitive, moral, and other developmental processes which occur during the pre-adolescent/adolescent years, and affect his/her learning.

Prerequisites & Notes

Credits: 3

SEFE 251 - Teaching Reading in the Content Areas Grades 4-8

This course is designed to introduce the middle level teaching candidate to reading across the content areas.

Credits: 3

SEFE 280 - Cultural Minorities in Education

A study of multi-cultural issues in American education with emphasis on the theory and practice relating to race, religion, ethnicity, social class, gender, age, and exceptionality.

Credits: 3

SEFE 290 - Experimental

A unique and specifically focused course within the general purview of a department which intends to offer it on a “one time only” basis and not as a permanent part of the department’s curriculum.

SEFE 295 - Workshop

A workshop is a program which is usually of short duration, narrow in scope, often non-traditional in content and format, and on a timely topic.

SEFE 298 - Selected Topic

A **Selected Topics** course is a normal, departmental offering which is directly related to the discipline, but because of its specialized nature, may not be able to be offered on a yearly basis by the department.

SEFE 300 - Middle Level Cognitive Development

This course provides pre-service teachers with a knowledge base of the various factors which affect the learning, cognition, and cognitive development of the pre-adolescent learner.

Credits: 3

SEFE 311 - Teaching of Mathematics in the Middle School

Students will explore curriculum models, teaching materials, technology and best teaching practices for enhancing middle school students' mathematical understanding.

Prerequisites & Notes

Admission to College of Education

Credits: 3

SEFE 319 - Teaching of Social Studies in Secondary Schools

The development and refinement of teaching competencies particularly related to the teaching of secondary school social studies: history, political science, economics, geography and sociology/anthropology. The course will emphasize the development of social studies in the school, teaching methodology (past and current), the unit approach to teaching social studies, media uses and preparation of media materials, teaching techniques, professional organizations, and teaching aids and materials such as computers, television and simulation programs.

Prerequisites & Notes

Admission to the College of Education

Credits: 3

SEFE 320 - Teaching of Language Arts in Secondary Schools

The development and refinement of teaching competencies particularly related to instruction in secondary school language arts, including English. The course also emphasizes English curriculum, teaching strategies and

methodologies and the use of media in content presentation.

Prerequisites & Notes

Admission to the College of Education

Credits: 3

SEFE 323 - Teaching World Languages

Theory and methodology for teaching world languages throughout the K-12 curriculum.

Prerequisites & Notes

SEFE 200

Admission to the College of Education

Credits: 3

SEFE 324 - Methods for Teaching English as a Second Language and Bilingual Education

A course designed to acquaint the prospective teacher at any level with the methodology used to teach English to native speakers of other languages. Also acquaints students with the specialized procedures used when teaching in bilingual classrooms (any two languages) on any level.

Prerequisites & Notes

One year of college language study or placement in 201.

Credits: 3

SEFE 325 - Teaching in the Middle Level Grades

Focusing on middle school teaching in grades 4 through 8, this course examines the organization, curriculum, instructional strategies, classroom management techniques, and teaching methods for working with young adolescents. Also covered are middle level guidance, exploratories, scheduling, and parent-school relations.

Prerequisites & Notes

Admission to the College of Education

Credits: 3

SEFE 326 - ELL Strategies and Practice

A course designed to acquaint the prospective teacher at any level with the methodology used to teach English Language Learners. Topics include linguistic and cultural diversity, standard-based instruction, assessment, and professionalism.

Credits: 3

SEFE 329 - Methods of Instruction in Secondary Content Areas

This course is designed to provide prospective secondary teachers with the opportunity to design and teach lessons using basic instructional models and teaching strategies. The role of reading, writing, and oral communication in the teaching/learning of secondary content is also addressed. Following microteaching episodes, students reflect upon and analyze the teaching processes to clarify instructional values and to encourage critical inquiry.

Prerequisites & Notes

Note: Admission to and retention in the teacher education program are prerequisites for teacher education coursework. Minimum overall GPA, professional conduct standards, and major GPA prerequisites also apply; these are specified in the Teacher Education Policy Manual. Details are available in the departmental office or from the student's advisor.

Credits: 3

SEFE 335 - Teaching Middle Level Social Studies

Designed for pre-service middle school teachers, focusing on grades 4 through 8, this multifaceted course compiles well-researched and essential information on social studies education.

The course uses the standards recommended by the National Council for the Social Studies and the Pennsylvania Department of Education as a foundation, thoroughly discussing the core disciplines and thematic strands of social studies. The knowledge base is packed with useful information on an all-encompassing range of teaching methods and tools, including lesson planning, skills development, assessment, multiple intelligences, determining one's personal philosophy of education, and utilizing information technology.

Credits: 3

SEFE 337 - Teaching Middle Level Language Arts

This course provides pre-service upper elementary and/or middle-level teachers, focusing on grades 4 through 8, with the relevant teaching strategies and content for English pedagogy.

Prerequisites & Notes

Admission to the College of Education

Credits: 3

SEFE 338 - Standards-Based Instruction & Assessment in the Inclusionary Classroom

Assessment skills, extensive practice, and the application of assessment results to design effective individualized interventions are essential middle level teaching skills. Successful demonstration of these abilities is an expected outcome through the PDE 430, *Pennsylvania Statewide Evaluation Form for Student Professional Knowledge and Practice*. Assessment knowledge has an important role in the standards and rubrics adopted by the National Middle School Association (NMSA). The "Assessment in a Standards Aligned System" section of this document has an overview of the types of assessments used in the Pre K-12 settings and competencies for all professional education candidates.

Credits: 3

SEFE 342 - Educational Psychology for Diverse Learners

This course provides the knowledge-base of (behavior, social learning, cognitive, constructivist and humanistic) learning theories, as applied in the context of diverse teaching and learning environments. The content also includes the topics of assessment, evidence-based research methods, motivational theories, and classroom management skills to

enable the pre-service teacher to create effective learning environments for diverse learning contexts.

Credits: 3

SEFE 349 - Teaching of Science in the Middle School

Students will explore curriculum models, teaching materials, technology and best teaching practices for enhancing middle school students' understanding in science.

Prerequisites & Notes

Admission to College of Education

Credits: 3

SEFE 370 - Educational Measurements, Assessment and Evaluation

Objectives for testing and evaluation; construction and analysis of classroom tests for evaluative and diagnostic purposes; construction and application of non-test tools for assessment, including portfolios; statistical analysis of testing and measurement data; use of standardized tests in the classroom; and the use of computers.

Prerequisites & Notes

SEFE 200

Credits: 3

SEFE 375 - Language Across the Secondary Curriculum

An examination of the language processes and their connection to learning content in secondary school. Based on the understanding of language and learning processes, future secondary teachers learn to employ teaching strategies that both enhance learning and improve reading, writing, speaking, and listening skills. Required of all secondary majors.

Credits: 2

SEFE 380 - History and Philosophy of Education

Critical exploration of the philosophical issues and historical antecedents that form the bases for past and current American educational practice in a multicultural society.

Credits: 3

SEFE 390 - Experimental

A unique and specifically focused course within the general purview of a department which intends to offer it on a "one time only" basis and not as a permanent part of the department's curriculum.

SEFE 395 - Workshop

A workshop is a program which is usually of short duration, narrow in scope, often non-traditional in content and format, and on a timely topic.

SEFE 398 - Selected Topic

A **Selected Topics** course is a normal, departmental offering which is directly related to the discipline, but because of its specialized nature, may not be able to be offered on a yearly basis by the department.

SEFE 401 - Education and American Activism

This course examines the connections between the American education system and social activism in the United States. This includes contrasting theories relating to the purpose of public education, historical analysis of cases in which the education system played an active role either in supporting social change or in reinforcing social order, and a critical reflection upon current education reforms in the United States.

Prerequisites & Notes

Prerequisites: None

Credits: 3

SEFE 420 - American Education in the Twenty-First Century: A Comparative Perspective

American educational policies and practices are viewed within a global context. Undergraduate students, who will become parents and taxpayers, are introduced to the core social and educational institution in developed or developing societies: the school.

Prerequisites & Notes

Note: Admission to and retention in the teacher education program are prerequisites for teacher education coursework. Minimum overall GPA, professional conduct standards, and major GPA prerequisites also apply; these are specified in the Teacher Education Policy Manual. Details are available in the departmental office or from the student's advisor.

Credits: 3

SEFE 422 - Practicum in the Middle-Level Grades

Designed to give middle-level majors a pre-student teaching field experience in the middle level grades under the supervision of a University faculty member.

Prerequisites & Notes

Admission to and retention in the teacher education program. Minimum overall GPA, professional conduct standards, and major GPA prerequisites also apply; these are specified in the "Teacher Education Policy Manual."

Credits: 1

SEFE 426 - Practicum in Secondary Education

Designed to give secondary education majors a pre-student teaching field experience in a secondary classroom under the supervision of a university faculty member.

Prerequisites & Notes

Note: Admission to and retention in the teacher education program are prerequisites for teacher education coursework.

Minimum overall GPA, professional conduct standards, and major GPA prerequisites also apply; these are specified in the Teacher Education Policy Manual. Details are available in the departmental office or from the student's advisor.

Credits: 1

SEFE 439 - Issues in the Diverse Secondary Content Area Classroom

This course is designed to help secondary teachers apply theoretical models to classroom management and to the teaching of reading and writing in content area classrooms. Additionally, the principles of school law as they apply to classroom teachers will be examined. Finally, the course will be taken concurrently with student teaching to facilitate the integration of theory with practice.

Credits: 3

SEFE 455 - Student Teaching - Secondary Education

Under the guidance of a cooperating teacher and university supervisor, students engage in two eight-week assignments on a full-time basis in specified school districts and attend scheduled seminars. Supervisors assign additional requirements.

Prerequisites & Notes

Note: Admission to and retention in the teacher education program are prerequisites for teacher education coursework; professional conduct standards, minimum overall GPA, and major GPA prerequisites also apply as specified in the Teacher Education Policy.

Credits: 3 to 12

SEFE 456 - Student Teaching - Middle Level Grades

Under the guidance of a cooperating teacher and university supervisor, teacher candidates engage in two eight-week assignments on a full-time basis in specified school districts at the middle level and attend scheduled seminars. University supervisors assign additional requirements.

Prerequisites & Notes

Admission to and retention in the teacher education program are prerequisites for teacher education coursework; professional conduct standards, minimum overall GPA, and major GPA prerequisites also apply as specified in the Teacher Education Policy.

Credits: 12

SEFE 490 - Independent Study

Independent Study courses give students the opportunity to pursue research and/or studies that are not part of the university's traditional course offerings. Students work one on one or in small groups with faculty guidance and are typically required to submit a final paper or project as determined by the supervising professor.

SEFE 495 - Workshop

A workshop is a program which is usually of short duration, narrow in scope, often non-traditional in content and format, and on a timely topic.

SEFE 498 - Selected Topic

A **Selected Topics** course is a normal, departmental offering which is directly related to the discipline, but because of its specialized nature, may not be able to be offered on a yearly basis by the department.

Credits: 1 to 3

SOWK 105 - Human Diversity

An orientation to living and working with diverse populations within modern American society, including examination of the strengths and stresses associated with diversities.

Credits: 3

SOWK 107 - Cultural Competency and Human Services

This course is designed for Social Work and Criminology/Criminal Justice majors to develop their understanding of how cultural differences among client populations require differential applications generic (professional) skills.

Credits: 3

SOWK 139 - University Seminar

University Seminar serves as the entry point to the Slippery Rock University general education program. With its small seminar setting and strong faculty-student interaction, the course promotes intellectual inquiry, critical and creative thinking, and academic excellence. Through varied content, the course introduces students to academic discourse and information literacy while exploring topics such as diversity and inclusion and global awareness. This course will set students along the path to becoming engaged with issues and scholarship important to a 21st century education while they learn about themselves and their place in the world.

Credits: 3

SOWK 190 - Experimental

A unique and specifically focused course within the general purpose of a department which intends to offer it on a "one time only" basis and not as a permanent part of the department's curriculum.

Credits: 3

SOWK 195 - Workshop

A workshop is a program which is usually of short duration, narrow in scope, often non-traditional in content and format, and on a timely topic.

Credits: 3

SOWK 198 - Selected Topic

A Selected Topics course is a normal, departmental offering which is directly related to the discipline, but because of its specialized nature, may not be able to be offered on a yearly basis by the department.

Credits: 3

SOWK 200 - Introduction to Child Welfare

Provides an overview of the child welfare system in the United States, including the history of the development of child welfare policies, programs, and services; exploring best practices in child welfare; and examining current and future issues and problems in this field.

Credits: 3

SOWK 230 - Social Justice and Equality

This course provides an overview of Frederick Douglass' perspectives on injustice and racial prejudice, which will be examined from his life experiences as a former slave who became the pre-eminent voice of the liberation struggle. The historical context of Douglass' life will be compared and contrasted to contemporary issues of race, ethnicity, freedom and diversity awareness.

Prerequisites & Notes

None

Credits: 3

SOWK 251 - Introduction to Social Work

An orientation to the field of social work and social work activities in the community. Includes agency lab.

Credits: 3

SOWK 290 - Experimental

A unique and specifically focused course within the general purpose of a department which intends to offer it on a "one time only" basis and not as a permanent part of the department's curriculum.

Credits: 3

SOWK 295 - Workshop

A workshop is a program which is usually of short duration, narrow in scope, often non-traditional in content and format, and on a timely topic.

Credits: 3

SOWK 298 - Selected Topic

A **Selected Topics** course is a normal, departmental offering which is directly related to the discipline, but because of its specialized nature, may not be able to be offered on a yearly basis by the department.

Credits: 3

SOWK 300 - Crisis Intervention

This course focuses on practice skills to effectively recognize and intervene in crises. This course examines factors influencing the development of crises, identification of potential crises and use of de-escalation skills. This course will focus on developing effective crisis intervention skills and techniques for a variety of crisis situations.

Prerequisites & Notes

None

Credits: 3

SOWK 310 - Animal Assisted Interventions

This course is designed to provide students with an understanding of the human-animal bond and how this relationship can foster interventions in the human service and health care fields. Students will learn several animal-assisted interventions, beneficial effects and how they are implemented with diverse groups in various practice settings.

Prerequisites & Notes

None

Credits: 3

SOWK 311 - Clinical and Academic Documentation for Social Work

This course will assist students in developing strong clinical documentation skills for social work practice. Students will be exposed and practice various types of clinical documentation. Additionally, students will enhance their clinical and academic writing by creating a portfolio of various documents.

Prerequisites & Notes

None

Credits: 3

SOWK 318 - Research Methods

Major methods and procedures used in sociological research. Also listed as PROF 318

Prerequisites & Notes

Admission to the Social Work program or permission of the instructor.

Credits: 3

SOWK 319 - Statistical Methods

Introduction to basic statistical concepts and research techniques used in social research.

Prerequisites & Notes

SOWK 318 Research Methods, Admission to the Social Work program or permission of instructor

Credits: 3

SOWK 321 - Forensic Social Work

This course applies social work principles to various aspects of the legal system. Students will address legal rights, policies and practice in various forensic settings and with clients involved with the law and legal system.

Prerequisites & Notes

None

Credits: 3

SOWK 328 - Human Behavior and the Social Environment I

Covers the biophysical, psychological, and social dimensions assessing social functioning during pregnancy, birth, newborn, infancy, and early childhood, middle childhood and adolescence, young and late adulthood.

Prerequisites & Notes

Admission to the Social Work Program

Credits: 3

SOWK 334 - Clinical Perspectives on DSM Diagnoses

Course content related to taxonomy, etiology, and diagnostic impressions of psychiatric disorders will be presented. Social Work services will be analyzed in relation to the disorders.

New title Spring 2014; Old title=Theoretical Perspectives on Mental Dysfunctioning

Prerequisites & Notes

Must be Criminology & Criminal Justice major or Social Work major

Credits: 3

SOWK 340 - Social Welfare Institutions

An introductory analysis of social welfare policies, issues, and institutions.

Prerequisites & Notes

Admission to the Social Work program

Credits: 3

SOWK 355 - Social Work Practice with Individuals

Principles and practice of interviewing processes as applied to casework methods. Grade of C or better required.

New title Spring 2014; Old title=Social Work Methods I

Prerequisites & Notes

Admission to the Social Work Program

Credits: 3

SOWK 356 - Social Work Practice with Groups and Families

Expands knowledge and skills base to include social work practice with family and group systems. Grade of C or better required.

New title Spring 2014; Old title=Social Work Methods II

Prerequisites & Notes

SOWK 355 or permission of the instructor

Credits: 3

SOWK 357 - Social Work Practice with Organizations and Communities

Expands knowledge and skills base to include social work practice in communities and larger social systems. Grade of C or better required.

New title Spring 2014; Old title=Social Work Methods III

Prerequisites & Notes

SOWK 250/340 and 356 or permission of the instructor

Credits: 3

SOWK 390 - Experimental

A unique and specifically focused course within the general purpose of a department which intends to offer it on a "one time only" basis and not as a permanent part of the department's curriculum.

Credits: 3

SOWK 395 - Workshop

A workshop is a program which is usually of short duration, narrow in scope, often non-traditional in content and format, and on a timely topic.

Credits: 3

SOWK 398 - Selected Topic

A **Selected Topics** course is a normal, departmental offering which is directly related to the discipline, but because of its specialized nature, may not be able to be offered on a yearly basis by the department.

Credits: 3

SOWK 407 - Social Policy Issues

Problems and issues associated with social policy including the politics of welfare policy.

Prerequisites & Notes

Admission to the Social Work program, SOWK 251; Co-requisite: SOWK 340

Credits: 3

SOWK 450 - SOWK Internship

A Social Work Internship.

Prerequisites & Notes

Completion of Pre-Admission, Methods, Research, Development and Policy Sequences; completion of all coursework. **Beginning Spring 2016 Internships will be required to be 12 credits.**

Credits: 12

SOWK 460 - Social Work Integrative Seminar

This senior level course integrates a four year social work curriculum with emphasis on knowledge base and skill acquisition for working in micro, mezzo, macro and research practice. This course will be a co-requisite with SOWK 450 (Internship)

Prerequisites & Notes

Completion of Human Diversity (SOWK 105), Introduction to Social Work (SOWK 251), Methods I (SOWK 355), Methods II (SOWK 356), Methods III (SOWK 357), Statistics (SOWK 317), Research (SOWK 318), Human Behavior and the Social Environment I (SOWK 328), Human Behavior and the Social Environment (SOWK 329), Social Welfare Institutions (SOWK 340), Social Policy Issues (SOWK 407) and co-requisite with the Internship (SOWK 450).

Credits: 3

SOWK 490 - Selected Topic

A **Selected Topics** course is a normal, departmental offering which is directly related to the discipline, but because of its specialized nature, may not be able to be offered on a yearly basis by the department.

Credits: 3

SOWK 495 - Workshop

A workshop is a program which is usually of short duration, narrow in scope, often non-traditional in content and format, and on a timely topic.

Credits: 3

SOWK 498 - Selected Topics

The in-depth examination of a specific topic. The nature of the topic selected and its treatment determined in consultation with the instructor.

A **Selected Topics** course is a normal, departmental offering which is directly related to the discipline, but because of its specialized nature, may not be able to be offered on a yearly basis by the department.

Prerequisites & Notes

Introductory course in the student's major, e.g. CRIM 205 or SOWK 251

Credits: 1 to 3

SPAN 101 - Spanish Language & Culture I

This course is the first in a three course series which will provide an introduction to the Spanish language.

Credits: 3

SPAN 102 - Spanish Language & Culture II

This course is the second in a three course series which will provide an introduction to the Spanish language.

Prerequisites & Notes

SPAN 101 or the equivalent.

Credits: 3

SPAN 103 - Spanish Language & Culture III

This course is the third in a three course series which will provide an introduction to the Spanish language.

Prerequisites & Notes

SPAN 102 or the equivalent.

Credits: 3

SPAN 104 - Situational Spanish

This course provides the opportunity to learn practical application Spanish phrases and cultural aspects relevant to future careers in fields that have direct contact with the public, depending on situations specific to the different professional fields.

Prerequisites & Notes

SPAN 102

Credits: 3

SPAN 110 - Spanish for Educators

This course provides an introduction and essential tools for communicating with Spanish-speaking students, parents/guardians and school personnel to pre-service and in-service educators.

Credits: 3

SPAN 121 - Spanish for Health Professionals

This course will explore occupational Spanish specializing in Health Care Professionals. This course provides an introduction and essential tools for communicating with Spanish-speaking patients. The course's context is health professions and communicative aspects within the field of Health. The topics presented are carefully selected/designed to help health care professionals manage various situations within the field while addressing Spanish-speaking patients. This course has no prerequisites. This course satisfies the prerequisite for Span 102.

Credits: 3

SPAN 139 - University Seminar

University Seminar serves as the entry point to the Slippery Rock University general education program. With its small seminar setting and strong faculty-student interaction, the course promotes intellectual inquiry, critical and creative thinking, and academic excellence. Through varied content, the course introduces students to academic discourse and information literacy while exploring topics such as diversity and inclusion and global awareness. This course will set students along the path to becoming engaged with issues and scholarship important to a 21st century education while they learn about themselves and their place in the world.

Credits: 3

SPAN 190 - Experimental

A unique and specifically focused course within the general purview of a department which intends to offer it on a "one time only" basis and not as a permanent part of the department's curriculum.

Credits: 3

SPAN 195 - Workshop

A workshop is a program which is usually of short duration, narrow in scope, often non-traditional in content and format, and on a timely topic.

Credits: 3

SPAN 198 - Selected Topic

A **Selected Topics** course is a normal, departmental offering which is directly related to the discipline, but because of its specialized nature, may not be able to be offered on a yearly basis by the department.

Credits: 3

SPAN 200 - Spanish Grammar and Composition I

A course designed to provide a review of basic Spanish grammar, emphasizing areas of difficulty in learning Spanish as a foreign language, and to introduce grammatical concepts not covered in previous studies.

Prerequisites & Notes

SPAN 103 or equivalent

Credits: 3

SPAN 201 - Spanish Conversation I

A functional course in speaking and writing Spanish, stressing everyday vocabulary and sentence structure. Some grammar review.

Prerequisites & Notes

SPAN 103 or the equivalent

Credits: 3

SPAN 215 - Topics in Hispanic Culture

This course provides insight into Hispanic cultures by examining the practices and traditions of the different countries that comprise the Hispanic world. This course is taught in English.

Credits: 3

SPAN 220 - Reading in Spanish

An introduction to reading in Spanish at the intermediate level.

Prerequisites & Notes

Spanish 103 or equivalent

Credits: 3

SPAN 290 - Experimental

A unique and specifically focused course within the general purview of a department which intends to offer it on a "one time only" basis and not as a permanent part of the department's curriculum.

Credits: 3

SPAN 295 - Workshop

A workshop is a program which is usually of short duration, narrow in scope, often non-traditional in content and format, and on a timely topic.

Credits: 3

SPAN 298 - Selected Topic

A **Selected Topics** course is a normal, departmental offering which is directly related to the discipline, but because of its specialized nature, may not be able to be offered on a yearly basis by the department.

Credits: 3

SPAN 300 - Spanish Grammar and Composition II

An intermediate grammar review and composition course emphasizing the basic structures of Spanish.

Prerequisites & Notes

SPAN 200 and 201 or 220

Credits: 3

SPAN 301 - Spanish Conversation II

Development of communication skills through a variety of activities in contexts likely to be encountered in the target culture.

Prerequisites & Notes

SPAN 201 and 200 or 220

Credits: 3

SPAN 302 - Communication in Spanish for the Elementary Classroom

This course is designed to offer the elementary education major specific language skills necessary for effective communication in the elementary education classroom. (open only to Ed majors).

Prerequisites & Notes

SPAN 201

Credits: 3

SPAN 303 - Professional Spanish

Designed to acquaint the student with formal registers and formulas of communication used in all professional communication in the Spanish-speaking world.

New title Spring 2014; Old title=Business Spanish

Prerequisites & Notes

SPAN 200, 201 and SPAN 300 or 301

Credits: 3

SPAN 305 - Spain Today

A study of the history of Spain and of important components of its culture, such as art, architecture, and daily life.

Prerequisites & Notes

SPAN 220 and 200 or 201

Credits: 3

SPAN 307 - U.S. Latino Cultures

A study of the cultural background of the members of the Spanish-speaking minorities in the United States, especially the Chicanos, Puerto Ricans and Cubans.

Prerequisites & Notes

SPAN 220 and 200 or 201

Credits: 3

SPAN 309 - Hispanic Civilization for the K-12 Classroom

This course, designed for the Elementary Education major, focuses on themes of Hispanic civilization and culture appropriate for inclusion in the K-12 classroom. Open to Spanish education majors only.

Prerequisites & Notes

SPAN 220 and 200 or 201

Credits: 3

SPAN 315 - Spanish Study Abroad

This course is designed for students who wish to study the Hispanic society firsthand. Students will study the culture, literature, history, art, and other issues concerning the country where the program is offered.

Prerequisites & Notes

6 Spanish credits at the 200 level or permission of the Department

Credits: 3

SPAN 318 - Hispanic Children's Literature for the K-12 Classroom

Students will read legends, fables, poems which are part of the Hispanic tradition and which are told to or read by young children and younger adolescents.

Prerequisites & Notes

SPAN 220 and 200 or 201

Credits: 3

SPAN 326 - The Civilization of Spanish America: Precolumbian to 19th Century

A study of the development of the civilization of Spanish America from Precolumbian times to the 19th century, including important aspects of their culture, such as art, architecture, and daily life.

Prerequisites & Notes

SPAN 220 and 200 or 201

Credits: 3

SPAN 328 - Latin America Today

A study of the development of the civilization of Spanish America from the 19th century to the present, including important aspects of their culture, such as art, architecture, and daily life.

Prerequisites & Notes

SPAN 220 and 200 or 201

Credits: 3

SPAN 330 - Spanish Literature 1800 to Present

A study of major writers genres and literary movements of Spain in this period.

Prerequisites & Notes

220 and 200 or 201

Credits: 3

SPAN 332 - Spanish American Literature - 19th Century to Present

A study of major writers genres and literary movements of Latin American in this period.

Prerequisites & Notes

SPAN 220 and (SPAN 200 or SPAN 201)

Credits: 3

SPAN 335 - Women in Hispanic Literature

A study of Hispanic women authors and of Hispanic women as literary characters in Hispanic literature.

Prerequisites & Notes

For Spanish credit, SPAN 220 and 200 or 201 or the equivalent. For non-Spanish credit, no prerequisite

Credits: 3

SPAN 340 - Introduction to Translation I

Introduction to the techniques of translating varied material from Spanish to English and vice versa with attention to cultural forces affecting translation.

Prerequisites & Notes

SPAN 300

Credits: 3

SPAN 350 - Spanish Linguistics and Phonetics

An introduction to general linguistics and the practical application of linguistics to the study of Spanish. Analysis and practice of the sound system of the foreign language.

Prerequisites & Notes

SPAN 200 and (SPAN 201 or SPAN 220)

Credits: 3

SPAN 390 - Experimental

A unique and specifically focused course within the general purview of a department which intends to offer it on a "one time only" basis and not as a permanent part of the department's curriculum.

Credits: 3

SPAN 395 - Workshop

A workshop is a program which is usually of short duration, narrow in scope, often non-traditional in content and format, and on a timely topic.

Credits: 3

SPAN 398 - Selected Topic

A **Selected Topics** course is a normal, departmental offering which is directly related to the discipline, but because of its specialized nature, may not be able to be offered on a yearly basis by the department.

Credits: 3

SPAN 400 - Spanish Grammar and Composition III

An advanced course in the study of Spanish grammar and usage.

Prerequisites & Notes

9 Spanish credits at the 300-level including SPAN 300

Credits: 3

SPAN 401 - Spanish Conversation III

This course will provide the opportunity for advanced students to improve their aural comprehension and their conversational abilities in Spanish.

Prerequisites & Notes

9 Spanish credits at the 300-level including SPAN 301

Credits: 3

SPAN 431 - Exploring Spanish Culture through Media

A study and analysis of the most important works of representative Spanish authors of this period.

Prerequisites & Notes

9 hours at the 300-level including 300 and 305 or 307 or 326, or 328 and 330 or 332 Or 318

Credits: 3

SPAN 432 - Exploring Latin American Cultures through Media

A study and analysis of the most important works of representative Spanish-American authors of this period.

Prerequisites & Notes

9 hours at the 300 level including 300 and 305 or 307 or 326 or 328 and 330 or 332 or 318

Credits: 3

SPAN 490 - Independent Study

Students have an opportunity to study selected areas in greater concentration. The nature of the topic selected and its treatment are determined in consultation with the instructor. credits)

Independent Study courses give students the opportunity to pursue research and/or studies that are not part of the university's traditional course offerings. Students work one on one or in small groups with faculty guidance and are typically required to submit a final paper or project as determined by the supervising professor.

Prerequisites & Notes

Permission of the instructor, departmental chairperson, and dean of the college where the study will be conducted

Credits: 1 to 3

SPAN 495 - Workshop

A workshop is a program which is usually of short duration, narrow in scope, often non-traditional in content and format, and on a timely topic.

Credits: 3

SPAN 498 - Selected Topic

A **Selected Topics** course is a normal, departmental offering which is directly related to the discipline, but because of its specialized nature, may not be able to be offered on a yearly basis by the department.

Credits: 3

SPED 121 - High Incidence Disabilities

This course will examine best practice and policies relating to the educational consequences of high-incidence disabilities with an emphasis on learning disabilities, mental retardation, emotional disturbance, speech/ language, and other health impairment.

Prerequisites & Notes

NOTE: Admission to and retention in the teacher education program are prerequisites for teacher education coursework. Minimum overall GPA, professional conduct standards, and major GPA prerequisites also apply; these are specified in the Teacher Education Policy Manual. Details are available in the departmental office or from the student's advisor.

Credits: 3

SPED 122 - Low Incidence Disabilities

This course will examine best practice and policies relating to the educational consequences of low-incidence disabilities. An emphasis on deafness, blindness, deaf-blindness, severe disability and multiple disability will occur. Placement and accommodation issues in integrated educational settings will also be a focus.

Prerequisites & Notes

SPED 121.

NOTE: Admission to and retention in the teacher education program are prerequisites for teacher education coursework. Minimum overall GPA, professional conduct standards, and major GPA prerequisites also apply; these are specified in the Teacher Education Policy Manual. Details are available in the departmental office or from the student's advisor.

Credits: 3

SPED 139 - University Seminar

University Seminar serves as the entry point to the Slippery Rock University general education program. With its small seminar setting and strong faculty-student interaction, the course promotes intellectual inquiry, critical and creative thinking, and academic excellence. Through varied content, the course introduces students to academic discourse and information literacy while exploring topics such as diversity and inclusion and global awareness. This course will set students along the path to becoming engaged with issues and scholarship important to a 21st century education while they learn about themselves and their place in the world.

Credits: 3

SPED 190 - Experimental

A unique and specifically focused course within the general purview of a department which intends to offer it on a "one time only" basis and not as a permanent part of the department's curriculum.

Credits: 3

SPED 195 - Workshop

A workshop is a program which is usually of short duration, narrow in scope, often non-traditional in content and format, and on a timely topic.

Credits: 3

SPED 198 - Selected Topic

A **Selected Topics** course is a normal, departmental offering which is directly related to the discipline, but because of its specialized nature, may not be able to be offered on a yearly basis by the department.

Credits: 3

SPED 220 - The Nature and Needs of Autism Spectrum Disorders

This course will focus on an understanding of the characteristics of Autism Spectrum Disorders (ASD) and the implications for individual's lifespan. The course will explore the latest research on potential causes, best practices for assessment and intervention, as well as current legal and ethical issues related to autism services.

Prerequisites & Notes

None

Credits: 3

SPED 230 - Developmental Disorders

Students will identify the critical components of an educational program for learners with developmental disabilities including: curricular areas, effective teaching techniques, use of appropriate materials, co-teaching and team teaching, ancillary services and personnel, parental involvement and inclusionary practices.

Prerequisites & Notes

SPED 121; SPED 122

NOTE: Admission to and retention in the teacher education program are prerequisites for teacher education coursework. Minimum overall GPA, professional conduct standards, and major GPA prerequisites also apply; these are specified in the Teacher Education Policy Manual. Details are available in the departmental office or from the student's advisor.

Credits: 3

SPED 245 - Technology in Special Education

Candidates will develop the use of technologies to assist in the teaching, remediation, assessment and enrichment of students with special needs in inclusive traditional and/or cyber classrooms. The goal is to help pre-service teachers implement instructional and assistive technology effectively. This course will also provide a framework for utilizing educational technology to meet the individualized needs of students.

Prerequisites & Notes

SPED 121, 122 with grade of C or better. Course is cross-listed with SPED 545.

Credits: 3

SPED 290 - Experimental

A unique and specifically focused course within the general purview of a department which intends to offer it on a "one time only" basis and not as a permanent part of the department's curriculum.

Credits: 3

SPED 295 - Workshop

A workshop is a program which is usually of short duration, narrow in scope, often non-traditional in content and format, and on a timely topic.

Credits: 3

SPED 298 - Selected Topic

A **Selected Topics** course is a normal, departmental offering which is directly related to the discipline, but because of its specialized nature, may not be able to be offered on a yearly basis by the department.

Credits: 3

SPED 302 - Developmental Disabilities

The learner will identify the critical components of an educational program for persons who have mental retardation classified as moderate, severe, or profound including: curricular areas, effective teaching techniques, appropriate materials, team approaches, ancillary services, parental involvement and inclusionary practices. Includes a lab of three contact hours per week with students who have severe and/or multiple disabilities.

Prerequisites & Notes

SPED 121, 122, 230. NOTE: Admission to and retention in the teacher education program are prerequisites for teacher education coursework. Minimum overall GPA, professional conduct standards, and major GPA prerequisites also apply; these are specified in the Teacher Education Policy Manual. Details are available in the departmental office or from the student's advisor.

Credits: 3

SPED 315 - Special Education Issues in Diverse Secondary Classrooms

This course is designed to familiarize secondary education majors with the various behavioral problems they may encounter in the inclusive classroom. Suggestions are given for ameliorating these problems, as well as successfully organizing the classroom and classroom routine. Three units of study will be explored. The three units are: 1) Classroom management with a focus on dealing with students with special needs, 2) Legal issues for secondary teachers, 3) Impact of exceptionalities in inclusive settings.

Prerequisites & Notes

Co-requisite SPED 455

Credits: 3

SPED 325 - Interventions in the Inclusive Classroom

This course in Special Education is designed for the teacher candidate seeking certification in Special Education, Early Childhood, Middle School, and / or other areas. It is designed to prepare future teachers with interventions in the inclusive classroom. Course content will include current effective instructional practices and delivery methods for all levels of special education to ensure for success of all students in the inclusive school setting. Due to recent changes in federal regulations beginning with "No Child Left Behind," more students with disabilities are being taught in the regular education classroom. This course will examine effective instructional practices and delivery methods for all levels of special education support (PK-8) to employ for an inclusive classroom setting.

Prerequisites & Notes

Pre requisite: SPED 121

Co requisites: ELEC 311

Credits: 3

SPED 326 - Special Education Law and Procedures

This course will review the special education process and procedures that are concerned with screening, assessment, IEP development, evaluation, and law.

Prerequisites & Notes

SPED 121 and SPED 122

Credits: 3

SPED 341 - Transition Across the Lifespan

This course is designed to provide students with a life management perspective for educating persons with disabilities in an inclusive setting. This course prepares students to apply the foundational principles of special education for meeting the major developmental needs of person with disabilities from early infancy to adulthood. This course is designed to provide the undergraduate student with a foundation for the understanding of the major developmental needs and community requirements for individuals with disabilities.

Prerequisites & Notes

NOTE: Admission to and retention in the teacher education program are prerequisites for teacher education coursework. Minimum overall GPA, professional conduct standards, and major GPA prerequisites also apply; these are specified in the Teacher Education Policy Manual. Details are available in the departmental office or from the student's advisor.

Credits: 3

SPED 342 - Building Community Partnerships

This course focuses on the multi-dimensional role of service provider to individuals with disabilities. In addition to hands-on experiences with service agencies, students enrolled in this course will interact with service providers, supervisors, related service personnel, parents, and caretakers. Students will learn how to take on all roles of a service provider and implement effective programming to address all the needs of a client(s). Students will become skilled in matching student needs with appropriate transition programming as well as identifying personnel key in providing

necessary services.

Credits: 3

SPED 343 - Americans with Disabilities

This is a course designed to give professionals in the areas of public health, service, education, etc. an in-depth view of the basic pedagogical principles and opportunities in the community for individuals with disabilities. This course allows the student to develop a background in disability awareness by providing understanding of how a disability impacts jobs, marriage, family life, and personal adjustment. An overview of society's historical treatment of the disabled will be contrasted with present attitudes.

Credits: 3

SPED 346 - Assessment in Transition Planning

This course introduces the student to the assessments utilized for evaluation of students at all levels of transition planning, spanning from school readiness assessments to transition planning for the secondary level. Students will learn to identify appropriate assessment based on student needs as well as how to administer and score evaluation data. In addition, the course will guide students in reviewing and interpreting assessment data to determine appropriate transition planning to address student needs. The course will also identify the major litigation and legislation that have significantly influenced the nature of service to exceptional populations in the area of transition planning and assessment of their needs.

Prerequisites & Notes

SPED 121, SPED 122, SPED 230, SPED 341, SPED 342 AND SPED 343

Students must earn a C or better in each course

Credits: 3

SPED 347 - Management & Leadership

This is an advanced level course that expands students' knowledge in skills necessary to take on leadership and management roles in the secondary transition planning level. Students will be required to engage in professional organizations at the state and local level. Students will learn to identify how to develop an effective system for service delivery to clients. Additional, an emphasis will be placed on current funding sources in the nation and state as well as how to manage necessary paperwork for obtaining funding necessary to run appropriate transition programs for children and adults of transition age.

Prerequisites & Notes

SPED 121, SPED 122, SPED 230, SPED 341, SPED 342 AND SPED 343

Students must earn a C or better in each course

Credits: 3

SPED 353 - Teaching in an Area of High Need

In this course, we will discuss the problem of over representation of individuals from diverse backgrounds in special education and the racial, cultural, and economic concerns of school systems and communities (both domestically and abroad) trying to narrow the opportunity/achievement gap for students. During the semester, students will be analyzing some of the historical, socioeconomic, and political factors school systems in areas of high need confront. Specifically, students will investigate effective instructional and organizational practices, examine home-school connections, and

identify possible disparities in available resources for urban and rural schools.

Credits: 3

SPED 390 - Experimental

A unique and specifically focused course within the general purview of a department which intends to offer it on a "one time only" basis and not as a permanent part of the department's curriculum.

Credits: 3

SPED 395 - Workshop

A workshop is a program which is usually of short duration, narrow in scope, often non-traditional in content and format, and on a timely topic.

Credits: 3

SPED 398 - Selected Topic

A **Selected Topics** course is a normal, departmental offering which is directly related to the discipline, but because of its specialized nature, may not be able to be offered on a yearly basis by the department.

Credits: 3

SPED 410 - Transition Practicum

The practicum course focuses on developing skills in collaboration, consultation, and teaming to prepare pre-service Transition Specialist students for entry into a multi-disciplinary and multi-dimensional role of services provider to individuals with disabilities. In addition to hands-on experience with service agencies, Transition Specialist students enrolled in this course will interact with clients, service providers, agency supervisors, related service personnel, and care takers.

Prerequisites & Notes

SPED 121, 122, 230, 341, 342 AND 343

Credits: 3

SPED 430 - Positive Behavior Strategies

This course is designed to familiarize students with various strategies, interventions and preventative measures to deal with behavioral issues in the self-contained and inclusion classroom.

Prerequisites & Notes

SPED 121 and SPED 325

Co requisites: ELEC 420, 480, 460, 470

Credits: 3

SPED 431 - Behavior Disorders and Autism

Techniques and educational strategies for teaching disturbed persons and juvenile delinquents for preparation for teaching in public residential institutions, as well as in special classes, resource rooms or home-bound instruction. This course is also designated an intensive writing course by the university.

Prerequisites & Notes

Prerequisites: SPED 121, SPED 122; SPED 230; SPED 325

Credits: 3

SPED 432 - Intervention in the Content Areas

This course in Special Education is designed for the teacher candidate seeking certification in Special Education, Early Childhood, Middle School, and / or other areas. This course will focus on reading, writing, and mathematics interventions. Students will gain experience with a variety of strategies and interventions to use with various levels of special education needs in the regular education classroom. Due to recent changes in federal regulations beginning with "No Child Left Behind," more students with disabilities are being taught in the regular education classroom. This course will examine effective instructional practices and delivery methods for all levels of special education support (PK-8) to employ for an inclusive classroom setting.

Prerequisites & Notes

SPED 121; SPED 122; SPED 230; SPED 325

Credits: 3

SPED 433 - Assessment Strategies in Special Education

This course is designed to provide undergraduate students with the skills and knowledge necessary to conduct educational assessment of diverse students and interpret assessment results in order to plan an educational program (i.e., determine eligibility and develop an individualized education program).

Prerequisites & Notes

Prerequisites: SPED 121; SPED 122; SPED 230; SPED 325

Credits: 3

SPED 434 - Professional Collaboration and Ethical Practices

This course focuses on skills in consultation, collaboration and learning to prepare the pre-service teacher for the multidimensional role of today's special educator. In addition to hands-on experience in classrooms, students enrolled in this course will interact with special educators, parents, general educators, and resource personnel among others. Application of teaching techniques with children with disabilities under faculty and host teacher supervision will provide the pre-service teacher with an opportunity for experience in the special education classroom as well as inclusive settings prior to the student teaching experience.

Prerequisites & Notes

SPED121; SPED 122; SPED 230; SPED 325

Credits: 3

SPED 450 - Transition Internship

This 12 credit internship course focuses on advancing skills in collaboration, consultation, and teaming to prepare pre-service students for entry into a multi-disciplinary and multi-dimensional role of services provider to individuals with disabilities. Students set up their own internship sites with guidance and approval from their advisor. This hands-on experience with service agencies makes up 480 hours of time in the field. Transition Specialist students enrolled in this course will interact with clients, service providers, agency supervisors, related service personnel, and care takers.

Prerequisites & Notes

SPED 121

Credits: 12

SPED 455 - Student Teaching - Special Education

Under the guidance of a cooperating teacher and university supervisor, students engage in two eight- week assignments on a full-time basis in specified school districts and attend scheduled seminars. Supervisors assign additional requirements.

Prerequisites & Notes

NOTE: Admission to and retention in the teacher education program are prerequisites for teacher education coursework. Minimum overall GPA, professional conduct standards, and major GPA prerequisites also apply; these are specified in the Teacher Education Policy Manual. Details are available in the departmental office or from the student's advisor.

Credits: 3 to 12

SPED 490 - Independent Study

Independent Study courses give students the opportunity to pursue research and/or studies that are not part of the university's traditional course offerings. Students work one on one or in small groups with faculty guidance and are typically required to submit a final paper or project as determined by the supervising professor.

Credits: 3

SPED 495 - Workshop

A workshop is a program which is usually of short duration, narrow in scope, often non-traditional in content and format, and on a timely topic.

Credits: 3

SPED 498 - Selected Topic

A **Selected Topics** course is a normal, departmental offering which is directly related to the discipline, but because of its specialized nature, may not be able to be offered on a yearly basis by the department.

Credits: 3

SPED 530 - Nursing Issues in Special Education

This course examines the roles of the school nurse as they pertain to the student with disabilities. Various exceptionalities are explored and activities provided to the school nurse candidate to learn about the student with disabilities and how to meet his/her needs in and out of the classroom.

Credits: 3

SPED 590 - Experimental

A unique and specifically focused course within the general purview of a department which intends to offer it on a "one time only" basis and not as a permanent part of the department's curriculum.

Credits: 3

SPED 595 - Workshop

Varies.

Credits: 3

SPED 598 - Selected Topic

Varies.

Credits: 3

SPMT 139 - University Seminar

University Seminar serves as the entry point to the Slippery Rock University general education program. With its small seminar setting and strong faculty-student interaction, the course promotes intellectual inquiry, critical and creative thinking, and academic excellence. Through varied content, the course introduces students to academic discourse and information literacy while exploring topics such as diversity and inclusion and global awareness. This course will set students along the path to becoming engaged with issues and scholarship important to a 21st century education while they learn about themselves and their place in the world.

Credits: 3

SPMT 150 - Practical Application

Provides students with early-on structured observations, micro-teaching experiences and seminars to enhance their awareness, understanding and comprehension about persons of all ages in public and private schools, sport facilities, sport and fitness agencies. SPMT 150 may be repeated to a maximum of 4 credits in different experiences. This is a Theory and Technique Course.

Prerequisites & Notes

SPMT 194

Credits: 1

SPMT 194 - Introduction to Sport Management

This course is an introduction to the field of sport management. Career options and managerial content will be reviewed. Foundation studies of sport, including history, philosophy, and professional skills, will be discussed. This is a Theory and Technique Course.

Prerequisites & Notes

(Must achieve at least a C grade before progressing to other SPMT courses.)

Credits: 3

SPMT 196 - Global Sport Management

As the economy has shifted from a domestic to a globally competitive marketplace, the demand has grown for sport managers who can function effectively in the international environment. This course develops a framework for understanding the international aspects of sport management. It provides future sport managers with a broad view of the factors underlying international sport competition, sport economics, sport marketing, sport management, and sport governance. Emphasis is on environmental dynamics, cultural and economic constraints, multinational sport business organizations, unique international sport events and international sport operations, strategy and policy.

Prerequisites & Notes

Declared Sport Management major.

Credits: 3

SPMT 269 - American Sport in the 21st Century

This course is designed to give the students an understanding of the internal and external factors that shape sport in American culture. This course will analyze how sport mirrors societal changes and how sociological phenomena affect participation and behavior. This is a Theory and Technique Course (open to Sport Management majors only).

Credits: 3

SPMT 286 - Sport Communication and Technology

This course is intended to provide students with a comprehensive understanding of communication and communication techniques that managers use to achieve excellence in sport organizations. Focus will be placed on public relations, as well as techniques for improving the communication skills of each student in an organized sport setting. Students will receive in-depth exposure to, (a) theories underlying the use of public relations in sport, (b) new technologies in sport communication, (c) desktop publishing in sport organizations, (d) sport organizational communication techniques, and (e) sport media relations. This is a Theory and Technique Course (open to Sport Management majors only).

Prerequisites & Notes

Credits: 3

SPMT 294 - Sport Management and Ethics

This course is designed to integrate the concepts learned from the foundation courses in management as they apply to management areas of sport and sport agencies. The ethical strategies of sport management will be emphasized in all management decisions. This is a Theory and Technique Course (open to Sport Management majors only).

Credits: 3

SPMT 315 - Diversity Issues in Sport Management

This course is designed to explore the persistent causes of pervasive racism and sexism in sport as it relates to the sport management field. This is a Theory and Technique Course (open to Sport Management majors only).

Prerequisites & Notes

SPMT 194, 196, 269 or permission by instructor

Credits: 3

SPMT 369 - Sport Budgeting and Finance

The focus of this course is on budgeting and financial principles in the sport industry. Major components of the course include analyzing budgets from youth, community, recreational, interscholastic, intercollegiate, professional, and international sport organizations, as well as studying the financial composition and impact of the sport industry. Students will also learn to construct various types of budgets used by sport organizations.

Prerequisites & Notes

SPMT 194, 196, 269, 286, 294

Credits: 3

SPMT 386 - Leadership in Athletic Administration and Sport Management

The major emphasis is on the preparation of athletic administrators and sport managers within collegiate university, high school, community and youth sport organizations. Information presented in this course will examine leadership theoretical concepts to help prepare students pursuing a career in athletics management/administration. Through critical thinking component and practical application exercises, the student will apply leadership theories, principles and concepts. Ultimately, the student will develop essential leadership competencies and skills for today's athletic administrators.

Prerequisites & Notes

SPMT 150; and
SPMT 194 with a grade of C or better; and

SPMT 294

Credits: 3

SPMT 394 - Sport Marketing

Sport Marketing is designed to apply marketing principles to the area of sport, sport events and sport products. Marketing strategies including sales, promotions and advertising of sport will be emphasized. This is a Theory and Technique Course (open to Sport Management majors only).

Prerequisites & Notes

SPMT 150, 194, 196, 286, 294, or permission by instructor

Credits: 3

SPMT 396 - Selling in the Sport Industry

This course examines the skills required for a successful career in sport sales, including personal selling, social media, and electronic sales. Students will learn sales strategies for single game tickets, season tickets, group tickets, and premium tickets and will be involved in selling tickets for a sport organization.

Prerequisites & Notes

SPMT 150, 194, 196, 286, 294 *or* permission by instructor.

Credits: 3

SPMT 406 - Sport Fundraising and Event Management

The course content will include multiple aspects of creating, funding, and executing a variety of sports events. Topics include event planning, staffing, managing, and evaluating. Students will plan, develop, and execute their own event. In addition, the various aspects of athletic development and fundraising, particularly at the intercollegiate level, will be explored.

Prerequisites & Notes

SPMT 150-01, 150-02, 194, 196, 286, 294 or permission by instructor

Credits: 3

SPMT 450 - Sport Management Internship

This course provides students with the opportunity to apply sport and fitness career-oriented skills in public, commercial, and private agencies. The internship is designed to be an in-depth experience. This is a Theory and Technique Course (open to Sport Management majors only).

Prerequisites & Notes

ALL SPMT classes or permission by instructor. Student must earn at least a "C" grade.

Credits: 3 to 12

SPMT 486 - Sport Law and Facilities

The course will demonstrate how various aspects of law and the legal system apply to the sport industry, with a particular emphasis on risk management, and sport facility operations. In addition, the course will provide a fundamental overview of the US court system.

Prerequisites & Notes

SPMT 150, 194, 196, 269, 286, 294 or permission by instructor

Credits: 3

SPMT 494 - Sport Management Senior Seminar

This course is designed for the senior Sport Management student, this course will examine topics dealing with sport finance management, sport law, sport facility management, and time and stress management. Field trips to sport agencies will be required. This is a Theory and Technique Course (open to Sport Management majors only).

Prerequisites & Notes

SPMT 150-01, 150-02, 150-03, 194, 196, 269, 286, 294, 315, 394, 396, or permission by instructor. Student must earn at least of grade of "C".

Credits: 3

SPMT 499 - Sport Management Research Methods

A study of research methodology and terminology in Sport Management entailing a critical analysis of available research. Specific attention is directed to formal written communication and oral presentation skills. This is a Theory and Technique Course (open to Sport Management majors only).

Prerequisites & Notes

SPMT 150-01, 150-02, 194, 196, 269, 286, 294, 394, or permission by instructor

Credits: 3

STAT 139 - University Seminar

University Seminar serves as the entry point to the Slippery Rock University general education program. With its small seminar setting and strong faculty-student interaction, the course promotes intellectual inquiry, critical and creative thinking, and academic excellence. Through varied content, the course introduces students to academic discourse and information literacy while exploring topics such as diversity and inclusion and global awareness. This course will set students along the path to becoming engaged with issues and scholarship important to a 21st century education while they learn about themselves and their place in the world.

Credits: 3

STAT 152 - Elementary Statistics I

Introduction to statistics: descriptive statistics, bivariate data, elementary probability, random variables, normal and binomial probability distributions, Central Limit Theorem, confidence intervals, and hypothesis Testing. MINITAB will be used.

Prerequisites & Notes

ACSD 110 or equivalent

Credits: 3

STAT 153 - Elementary Statistics II

Review of Elementary Statistics I, confidence intervals and hypothesis testing of means, proportions, and standard deviations of two populations, nonparametric methods, multinomial experiments, linear regression and correlation, and one-way ANOVA. MINITAB will be used.

Prerequisites & Notes

MATH 152 or STAT 152 or equivalent

Credits: 3

STAT 252 - Introduction to Statistical Modeling

Linear correlation and regression, multiple regression, polynomial regression, analysis of variance, and time series. MINITAB will be used for data analysis.

Prerequisites & Notes

Prerequisite: MATH 153 or STAT 153

Credits: 3

STAT 254 - Nonparametric Statistics

Statistical models in nonparametric settings. Theory and practice using techniques requiring less restrictive assumptions about the distribution of the data. Nonparametric analogues of t- and F-tests in one and two sample settings, ANOVA, regression and correlation will be discussed.

Prerequisites & Notes

MATH 125 and (MATH 153 or STAT 153)

Credits: 3

STAT 256 - Statistical Computing

A number of topics concerning computing and statistics will be covered. Basic statistical analysis packages (such as MINITAB, SPSS, R and SAS) will be discussed and compared. Background information and computational issues in various areas of statistics will be included.

Prerequisites & Notes

Prerequisites: STAT 252

Credits: 3

STAT 350 - Applied Statistics

A calculus-based introduction to probability and statistical applications. Discrete and continuous probability and expected value. Confidence intervals and hypothesis testing for single populations. This course is not open to students who have credit for MATH 352. This course does not count as an upper division elective mathematics course for mathematics majors.

Prerequisites & Notes

MATH 230 with a C or better

Credits: 3

STAT 352 - Mathematical Statistics I

An introduction to the mathematical foundations of probability theory including discrete and continuous probability distributions, random variables, mathematical expectation, momentuo, and moment generating functions.

Prerequisites & Notes

MATH 230

Credits: 3

STAT 353 - Mathematical Statistics II

Functions of random variables, sampling distributions, introduction to mathematical theory of statistical inference, including methods of moments, estimators, maximum likelihood estimators, sufficient statistics, interval estimates, and hypothesis testing.

Prerequisites & Notes

MATH 352 or STAT 352

Credits: 3

STAT 354 - Mathematical Statistics III

Stochastic processes and statistical inference including: Type I and Type II errors, MLE, Neyman-Pearson lemma, order statistics, Poisson processes, ANOVA, nonparametric tests, comparing models and Bayesian parameter estimation.

Prerequisites & Notes

MATH 231; and
MATH 353 or STAT 353

Credits: 3

STAT 372 - Forecasting & Time Series

An introduction to creating, solving, analyzing and interpreting real-world time-series and forecasting models. Topics include linear, autoregressive, moving average and other forecasting and time-series techniques, transfer functions, multivariate model building, stationary and nonstationary techniques. Applications may include all areas where forecasting is required including transportation, finance, scheduling, networks and supply chains. Appropriate software tools for analyzing forecasting models including software such as SAS and spreadsheet software will be taught.

Prerequisites & Notes

MATH 252 with a grade of C or better; or
MATH 350 with a grade of C or better

Credits: 3

STAT 373 - Statistical Quality Control

A comprehensive coverage of modern quality control techniques including the design of statistical process control systems, acceptance sampling and process improvement.

Prerequisites & Notes

Prerequisites: MATH 230 with a C or better; and C or better in STAT 252 or STAT 311

Credits: 3

THEA 131 - Fundamentals of Acting

An introduction to the theory and practice of acting.

Credits: 3

THEA 132 - Stagecraft

Fundamentals of modern set construction, stage lighting, properties, and costume practice. Students assist with current productions in laboratory sessions.

Credits: 3

THEA 139 - University Seminar

University Seminar serves as the entry point to the Slippery Rock University general education program. With its small seminar setting and strong faculty-student interaction, the course promotes intellectual inquiry, critical and creative thinking, and academic excellence. Through varied content, the course introduces students to academic discourse and information literacy while exploring topics such as diversity and inclusion and global awareness. This course will set students along the path to becoming engaged with issues and scholarship important to a 21st century education while they learn about themselves and their place in the world.

Credits: 3

THEA 141 - Art of the Theatre

An introduction to the elements of the theatre: acting, playwriting, directing, producing, design and technology. Attention to the ways in which theatre springs from the nature of the community in historical as well as contemporary settings. A lecture course; no performance skills required.

Prerequisites & Notes

None

Credits: 3

THEA 142 - Wellness for the Actor

Wellness for the Actor is a foundation class that established a physical, mental, and emotional wellness practice that supports advanced training in voice, movement and acting. In the course students will learn to: foster fuller breathing to connect body and mind as a practice for grounding and centering; create a stronger and more versatile physical body; learn physical conditioning practices; gain experience calming the mind and emotional body; study the practice of personal nutrition to enhance general health; and develop their ability to become attuned and connected to their physical self.

Credits: 3

THEA 143 - Voice for the Actor

Voice for the Actor: A study of breath and vocal work that will inform explorations to develop awareness of the voice and body and how that connects to vocal energy. This will foster breath support, range and stamina. Students will learn the basics of vocal anatomy as well as develop skills for healthy vocal usage.

Credits: 3

THEA 145 - Musicianship for Musical Theatre

This course focuses on the development of vocal performance techniques through training in aural and sight-singing skills including solfege, rhythmic notation, ear training, tempo, meter and dictation. Students will expand their understanding of harmonic progression, body alignment, muscle memory, and technical accuracy. Basic piano skills will also be covered.

Prerequisites & Notes

Admission to the BFA Acting program.

Credits: 3

THEA 151 - Rehearsal and Production

Supervised experience in theatre performance and stagecraft by acting or crew participation in one Department of Theatre production. May be taken for credit four times. Prospective actors will have to participate in a competitive audition.

Prerequisites & Notes

Permission of the instructor

Credits: 1

THEA 159 - Introduction to Theatre Arts Management

This course covers the basic principles, theories, concepts, processes, and practices relating to organization in the arts industry, with a focus on the theatre industry. Topics include the structure of arts industries, organizational structures, leadership, staffing, volunteerism, fund raising, intellectual property, grants writing, advocacy, etc.

Credits: 3

THEA 190 - Experimental

A unique and specifically focused course within the general purview of a department which intends to offer it on a "one time only" basis and not as a permanent part of the department's curriculum.

Credits: 3

THEA 195 - Workshop

A workshop is a program which is usually of short duration, narrow in scope, often non-traditional in content and format, and on a timely topic.

Credits: 3

THEA 198 - Selected Topic

A **Selected Topics** course is a normal, departmental offering which is directly related to the discipline, but because of its specialized nature, may not be able to be offered on a yearly basis by the department.

Credits: 3

THEA 215 - Drawing/Drafting/CAD

Principles and techniques used for the creation and implementation of theatrical designs. Introduction to design elements and techniques, drawing, rendering, and computer-aided drafting. Emphasis on set, costume, lighting and property designs.

Prerequisites & Notes

Permission of the instructor

Credits: 3

THEA 222 - Acting II

Intermediate-level course designed to continue the actor training begun in THEA 131. Emphasis on realistic acting techniques.

Prerequisites & Notes

THEA 131

Credits: 3

THEA 235 - Costume Technology

Basic techniques of constructing costumes for the stage, emphasizing sewing, pattern making and cutting, draping. Includes the study of fabrics, millinery, and accessories.

Credits: 3

THEA 244 - Acting for Song I

A course designed to synthesize the process of acting through song. Students will apply various acting and singing methodologies to connect to the emotional, physical and vocal requirements of both character and song.

Prerequisites & Notes

THEA 145 & THEA 222; minimum grade of C in both.

Credits: 3

THEA 254 - Musical Theatre Dance I

Musical Theatre Dance I will introduce the students to the fundamentals of dance for musical theatre performance, including jazz, tap, ballroom, and hip hop. Students will learn correct alignment and techniques applicable to all

musical theatre genres, and apply those principles to the dance styles found within those genres.

Prerequisites & Notes

DANCE 125, grade of C or better.

Credits: 2

THEA 269 - Playwriting

An introduction to the fundamentals of playwriting, including clear storytelling, character development, scene structure and style. The particular demands of writing in a theatrical medium, as distinct from film, television or novel, will be emphasized.

Credits: 3

THEA 281 - Survey of Dramatic Literature I

Analysis and discussion of some of history's most celebrated works of dramatic literature, ranging from classical drama to drama of the eighteenth century. Texts will be examined within the historical context of the cultures that produced them, and in light of their respective theatrical conditions, performance styles, etc. Emphasis will also be placed on various methods of textual analysis.

Credits: 3

THEA 283 - Survey of Dramatic Literature II

Analysis and discussion of some of history's most celebrated works of dramatic literature, ranging from the early 18th century to the most exciting and groundbreaking contemporary drama. Texts will be examined within the historical context of the cultures that produced them, and in light of their respective theatrical conditions, performance styles, etc. Emphasis will also be placed on various methods of textual analysis.

Prerequisites & Notes

Prerequisites: THEA 281

Credits: 3

THEA 290 - Experimental

A unique and specifically focused course within the general purview of a department which intends to offer it on a "one time only" basis and not as a permanent part of the department's curriculum.

Credits: 3

THEA 295 - Workshop

A workshop is a program which is usually of short duration, narrow in scope, often non-traditional in content and format, and on a timely topic.

Credits: 3

THEA 298 - Selected Topic

A **Selected Topics** course is a normal, departmental offering which is directly related to the discipline, but because of its specialized nature, may not be able to be offered on a yearly basis by the department.

Credits: 3

THEA 303 - Acting III

Acting III is an advanced-level course designed to give the performer facility with the acting approach known as Meisner Technique.

Prerequisites & Notes

THEA 222, minimum C.

Credits: 3

THEA 304 - Acting for Song II

A continuation of Acting for Song I. Students will undergo advanced study in synthesizing the process of acting through song. Students will apply advanced acting and singing methodologies to connect to the emotional, physical and vocal requirements of both character and song.

Prerequisites & Notes

THEA 244, minimum grade of C.

Credits: 3

THEA 322 - Acting Technique

An intensive focus on one or more of the following: role preparation, scene study, physical disciplines of acting. Approach varies from offering to offering. May be repeated for credit three times.

Prerequisites & Notes

THEA 222 and permission of the instructor

Credits: 3

THEA 324 - Stage Makeup

Theory, practice, and materials of stage make-up. Practical application is mandatory and extensive; students will analyze various characters and design makeup for them.

Prerequisites & Notes

THEA 131,151

Credits: 3

THEA 328 - Acting Shakespeare

An advanced-level course designed to provide the student with tools for the analysis and performance of the plays of Shakespeare.

Prerequisites & Notes

THEA 222 and permission of the instructor

Credits: 3

THEA 329 - Shakespeare Tour

An ensemble composed of actors and technicians, selected by audition and interview, performing Shakespeare-based scripts in the community and region. May be repeated twice for credit.

Prerequisites & Notes

Prerequisites: THEA 328 or permission of instructor.

Credits: 3

THEA 330 - Voice and Movement for the Actor

Introduction to disciplines of voice and movement essential for the well-prepared actor. Emphasis will be on performance rather than theory.

Prerequisites & Notes

Prerequisite: THEA 131

Credits: 3

THEA 332 - Advanced Stagecraft

Advanced methods and materials of stagecraft: emphasis on furniture, metals, projected scenery, unusual rigging situations, hydraulics, computer applications, and special effects.

Prerequisites & Notes

THEA 132

Credits: 3

THEA 333 - Scene Design

The principles and application of design for stage, emphasizing sketches, diagrams, drafting, and model making.

Prerequisites & Notes

THEA 215 or permission of the instructor

Credits: 3

THEA 334 - Stage Lighting

The theory and practice of stage lighting as practiced in modern theatre.

Prerequisites & Notes

THEA 215 or permission of the instructor

Credits: 3

THEA 335 - Costume Design and History

A survey of costume history from the ancient world to the present with an emphasis on social, political, religious, and technological conditions. The process of costume design will be explored using the principles of variety and order, character analysis, period research, and the elements of design.

Prerequisites & Notes

THEA 215 or permission of instructor.

Credits: 3

THEA 337 - Directing

The theory and practice of directing for the modern theatre.

Prerequisites & Notes

THEA 131; and

THEA 132; and

(THEA 281 or THEA 283); and

one section of 151

Credits: 3

THEA 339 - New Play Development

This course is designed for actors, directors, designers and playwrights to learn how to collaborate with a playwright on a new work and to successfully mount a production of this new work. Students participate through a collaborative process of rehearsal and design, problem-solving and experimentation. Class culminates in a public performance on campus and perhaps another local venue.

Prerequisites & Notes

Student should be a theatre major or minor. Permission of instructor via audition or portfolio review.

Credits: 3

THEA 340 - International Theatre Experience

This course is designed for actors, designers and public relations students to create, design and market a production for overseas performance. Students participate through a collaborative process of rehearsal and design, problem-solving and experimentation. Students will also have the opportunity to participate in theater activities involving international performance groups. Class culminates in a public performance both on campus and overseas.

Prerequisites & Notes

Student should be a Theatre major or minor. Permission of instructor via audition or portfolio review.

Credits: 3

THEA 342 - IPA/Dialects

A course designed to train actors in phonetics, diction and dialects. Students will learn the International Phonetic Alphabet and master its use for Standard American English stage diction, as well as a variety of national variants and foreign dialects, through both phonetic notation and performance of dramatic texts.

Prerequisites & Notes

Prerequisites: THEA 143, minimum grade C

Credits: 3

THEA 344 - Auditioning

Students will learn techniques designed to develop skills in auditioning for theatre productions. Over the course of the semester, students will prepare a diverse repertoire of audition material, including classical and contemporary, as well as dramatic and comedic monologues. Cold readings, appearance and attire, and interview skills will also be covered.

Prerequisites & Notes

Prerequisite: THEA 303, min. grade C

Credits: 3

THEA 345 - Stage Management and Safety

Safe and effective production management on the modern stage. Safety education in shop, performance, and public spaces.

Prerequisites & Notes

THEA 132

Credits: 3

THEA 346 - Private Musical Theatre Voice

Students will continue to develop musicianship, sight singing and vocal skills through individualized training designed to match their vocal range and skills. Repeatable up to 6 credits.

Prerequisites & Notes

Prerequisite: THEA 145, minimum grade of C; or permission of instructor.

Credits: 1

THEA 347 - Auditioning for Musical Theatre

This class will explore personal relationships between performer and song as well as develop reading skills to learn performance readiness. Active performance and application of feedback are core to this work, as well as understanding techniques and the vocabulary of a musical theatre audition. Students will learn how to choose well-suited songs and develop an audition book comprising of different styles.

Prerequisites & Notes

Prerequisites: THEA 304 and THEA 303, min. grade C.

Credits: 3

THEA 348 - Musical Theatre Repertory

Musical Theatre Repertory is an advanced-level course designed to provide the musical theatre performer with a series of individually-tailored audition pieces, while also providing a thorough grounding in the historical background and stylistic demands of the various musical theatre genres. Students will develop solo performance pieces drawn from all major musical theatre styles, including "golden age," contemporary, rock, hip-hop, etc.

Prerequisites & Notes

Prerequisite: THEA 304, grade C.

Credits: 3

THEA 351 - Movement for the Actor

Movement for the Actor is an advanced-level course designed to facilitate and develop expressive, responsive movement in the stage performer. In addition to learning a battery of stretching and strengthening exercises, the student will explore physical character development through approaches such as Feldenkrais, "authentic movement" and Chekhov Technique.

Prerequisites & Notes

Prerequisites: THEA 303, minimum grade C.

Credits: 3

THEA 354 - Musical Theatre Dance II

Musical Theatre Dance II will continue the exploration of jazz, tap, ballroom and hip hop dance begun in Musical Theatre Dance I. This second level technique course will continue to refine the student's skills in performance and stylistic techniques.

Prerequisites & Notes

Prerequisite: THEA 254, minimum grade of C or better OR permission of the instructor.

Credits: 2

THEA 355 - Projects in Theatre

The study and performance of a major role in a Department of Theatre production, or participation in a production as a crew head with significant responsibility, or planning and execution of a study of moderate scope in the history, literature, or criticism of the theatre. May be taken for credit four times for a maximum of 6 credits.

Prerequisites & Notes

Junior standing and permission of the instructor

Credits: 1 to 2

THEA 359 - Studies in Audience Development

An advanced-level course focusing on audience development strategies for arts institutions.

Prerequisites & Notes

THEA159

Credits: 3

THEA 369 - Advanced Playwriting

An advanced class devoted to building upon fundamental skills learned in *Playwriting* (93 269), such as characterization, plot structure, exposition, etc.

Prerequisites & Notes

THEA 269 - Playwriting

Credits: 3

THEA 370 - Playwriting Genres and Styles

An advanced class devoted to exploring one or more of the following advanced topics: playing genres, "devised theatre," documentary theatre, non-realistic writing, non-traditional structures and forms.

Prerequisites & Notes

THEA 369 or permission of the instructor.

Credits: 3

THEA 372 - Senior Seminar in Playwriting

An advanced-level seminar for senior playwriting majors, in which major playwriting projects are shared and developed.

Prerequisites & Notes

THEA369

Credits: 3

THEA 390 - Experimental

A unique and specifically focused course within the general purview of a department which intends to offer it on a "one time only" basis and not as a permanent part of the department's curriculum.

Prerequisites & Notes

Credits: 1 to 3

THEA 392 - History of Musical Theatre

This survey course will explore the historical use of music in drama with a focus on the invention, development and masterworks of the American musical genre. Major genres, composers, lyricists, librettists, directors, choreographers, and performers will be discussed. The socio-historical context of various musicals will be explored through the literature of the genre.

Prerequisites & Notes

Prerequisite: THEA 283

Credits: 3

THEA 393 - History of Theatre Design and Architecture

A review of the history and evolution of scene, costume, lighting, prop and sound design for the theatre. Course will also examine the evolution of theatre spaces, from the outdoor theatre of the Ancient Greeks to traveling wagon stages of the medieval period to modern architectural trends. The course will examine non-western forms of theatre such as aboriginal and African theatre as well as western world theatre traditions.

Prerequisites & Notes

THEA 281 or THEA 283

Credits: 3

THEA 394 - Theories of Acting and Directing

A history of the art, craft and theories of acting. Also, a historical investigation into the role of the "director" in pre-modern theatre and the evolution into its present predominant place in contemporary theatre.

Prerequisites & Notes

THEA 281 or THEA 283 or permission of instructor

Credits: 3

THEA 395 - Workshop

A workshop is a program which is usually of short duration, narrow in scope, often non-traditional in content and format, and on a timely topic.

Credits: 3

THEA 398 - Selected Topic

A **Selected Topics** course is a normal, departmental offering which is directly related to the discipline, but because of its specialized nature, may not be able to be offered on a yearly basis by the department.

Credits: 3

THEA 425 - Professional Theatre Practice

A study of the working conditions of the professional actor, designer, technician, and director in the contemporary theatre. Preparation for effective career development.

Prerequisites & Notes

Junior standing

Credits: 3

THEA 442 - Senior Showcase

This course is designed to give each graduating BFA Acting student the opportunity to prepare for and perform in a showcase as a step towards establishing their professional career. The showcase will invite theatre professionals such as agents, producers, casting directors, and directors to attend and will be presented in a major metropolitan area and on campus. The course also builds on the foundational practices of working in professional theatre. Professional headshots will be required.

Prerequisites & Notes

Prerequisites: THEA 344 OR THEA 347, grade C.

Credits: 3

THEA 450 - Internship

Supervised placement in a working theatre situation off campus.

Prerequisites & Notes

Extensive and successful experience in theatre performance on campus, 2.000 GPA overall and in all theatre courses attempted, and permission of the department's curriculum committee.

Credits: 1 to 12

THEA 490 - Independent Study

A faculty-supervised project in an advanced area of theatre studies carried out independently by a qualified upper-class student.

Independent Study courses give students the opportunity to pursue research and/or studies that are not part of the university's traditional course offerings. Students work one on one or in small groups with faculty guidance and are typically required to submit a final paper or project as determined by the supervising professor.

Credits: 1 to 3

THEA 495 - Workshop

A workshop is a program which is usually of short duration, narrow in scope, often non-traditional in content and format, and on a timely topic.

Credits: 3

THEA 498 - Selected Topics

The in-depth examination of a specific topic. The nature of the topic selected and its treatment determined in consultation with the instructor. May be repeated for credit provided the topic varies substantially from all previous registrations.

A **Selected Topics** course is a normal, departmental offering which is directly related to the discipline, but because of its specialized nature, may not be able to be offered on a yearly basis by the department.

Prerequisites & Notes

permission of the instructor

Credits: 1 to 3

Academic Life

A quality academic life for all students is the focus of Slippery Rock University. Students will find that their priority actively centers on the intellectual development necessary to successfully achieve their bachelor's degree.

Click on a link for more information.

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- [What Degree Will I Receive?](#)
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How Long Will It Take?

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At SRU, the undergraduate program of study requires a minimum of 120 semester hours of course credit hours to receive a bachelor's degree. Some students will actually complete more than 120 credit hours. This occurs for one of three reasons:

- Some students will be required to take additional courses necessary to develop basic academic competencies. These courses are not counted as credit toward graduation. (See Liberal Studies Basic Requirement section for more detail.)
- Some students may choose to take more than 120 credit hours. For example: When students choose to complete more than one major, or a minor/additonal specialization.

- Some majors require more than 120 credit hours for a bachelor's degree.
- Post-baccalaureate students must complete at least 30 new credit hours at SRU beyond their first baccalaureate degree, to earn a second baccalaureate degree.

What Degree Will I Receive?

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The bachelor's degree awarded depends on a number of factors particularly the major selected. If a student completes more than one major, one or two degrees may be awarded depending upon the total number of credits earned and the degrees associated with each major. See the "Earning 2 Degrees or 2 Majors" section in the Academic Policies portion of this catalog.

Choosing an Academic Program

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What Makes Up an Academic Program?

Courses a student takes during their SRU experience can be broadly divided into three types: Liberal Studies, Major, and Electives. Beyond this, individual students may also take courses to earn a minor or certificate.

Liberal Studies

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Liberal Studies Guide

In Fall 2005, a new liberal studies program took affect for all students.

The program contains six critical goals or areas of study. For each area, students select one or two classes from a selection of "goal courses." In addition, in some areas of study, students select a course from a wide class selection identified as "enrichment courses." These courses provide the opportunity to broaden and deepen knowledge in the goal area.

Goal I: Basic Requirements

The educated person must be able to communicate effectively in oral and written modes using varied media and information sources. A university education should give attention to encouraging intellectual levels that will equip the individual for an energetic and productive life.

Goal Courses (9 credits)

Some students may be exempted from one or more of the required courses based on entrance examination and/or pertinent experience. If students are exempted from a required goal course, no credit will be awarded, and the student will still be required to complete at least 45 credits of liberal studies coursework. Some students may be required to take additional courses to develop basic academic requirements in mathematics. However, credits earned in those courses are not applicable toward the credits required for a baccalaureate degree.

The Basic Requirement courses are subject to continuous registration. Students during the first semester of enrollment will be placed into the appropriate Basic Requirement course(s). Students who receive an "NC" in these courses must repeat the course(s) the following semester. After the first week of classes students may not withdraw from Basic Requirement courses.

Goal II: The Arts

Through the creative process, writers and artists express, challenge, and extend societal values. To understand our own

and other cultures, one must come to terms with artistic efforts. Ideally, such understanding will lead to experiences in which the individual seeks to be a participant in the arts, finding creative ways to express feelings and insights.

Goal Courses (3 credits)

It is strongly recommended that all students enrolled in arts goal courses attend a minimum of two arts events.

Goal III: Global Community

The educated person who is aware of other people, places and values exhibits an enlightened perspective and appreciates cultural diversity. The university must assist in developing insights and skills, which will enable every student to value humanity's worth, dignity and contributions.

Goal Courses (9 credits)

Three credits of US courses and six credits of non-US courses taken will meet the requirement. The modern language courses used to satisfy the BA requirement may not be used in the portion of this global community perspective block.

Goal IV: Human Institutions and Interpersonal Relationships

Our society depends heavily upon groups, organizations and institutions to function. The student will demonstrate an understanding of individual and group behavior by developing cooperative work strategies, examining individual and societal values, and exploring social issues.

Goal Courses (3 credits)

Goal V: Science, Technology and Mathematics

The educated person studies science, technology and mathematics not only to master specific disciplinary content, but also to understand the modes of thought and methods of inquiry of the scientist.

Rigorous, disciplined inquiry enables us to access information and process that enhance physical well being and our natural resource use.

Goal Courses (9-10 credits)

Students are required to have one laboratory experience from the disciplines of Biology, Chemistry, Physics, or Geology.

Goal VII: Challenges of the Modern Age

The essential characteristic of the educated person is the ability to weigh alternatives and make thoughtful choices. The rapidly changing world in which we live demands that we all make enormously difficult decisions, choosing wisely and responsibly in an area of competing persuasions. Courses in Goal VII will have a minimum prerequisite of "Advanced Standing."

Goal Courses (3 Credits)

Enrichment Courses (9 credits)

Students must choose one course from each of three of the following four areas:

1. The Arts (Select one-three credit course or three different one-credit courses)
2. Global Community
3. Human Institutions and Interpersonal Relationships
4. Science, Technology and Mathematics

For assistance with the liberal studies requirements, please contact Academic Services at 724-738-2012, Academic Records and Registration at 724-738-2010.

Academic Major

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In addition to the liberal studies requirements, the university requires students to select a major. Students are typically responsible for meeting the major requirements in effect at the time they enter the university or change majors. When

students leave the university and are later readmitted, they become responsible for meeting the major requirements in effect at the time they are readmitted.

If students would benefit from meeting a set of major requirements other than those in effect at the time they declared their major or were admitted/readmitted to the university, their advisor may request of the students' academic dean that a different set of major requirements be met.

At the time of enrollment or by the end of the sophomore year, students must select a major. The university encourages students to select during their early semesters the exploratory (undeclared) student status if they have uncertainty or apprehension about their choice of a major. If students desire to change their major, they must complete, with departmental chairperson's approval, the change of major form in the Office of Academic Records and Registration.

Using their criteria, faculty determine if a student may be admitted into their departments to pursue their major. Students may obtain these criteria from the departmental advisor or chairperson. Course requirements for a major may not be taken using a Pass/No Credit grade option. Courses taken within a student's first major department may not be used to meet any Liberal Studies program requirements.

Students may declare a second major by completing a declaration of second major form. The requirements for all majors must be completed prior to the awarding of the student's first baccalaureate degree. Once graduated, students may not return and add additional majors to their undergraduate record. A student wishing to return to the university to earn a second degree may be admitted as a post baccalaureate student and must earn at least 30 new credits beyond their first degree.

Students may earn two majors or two degrees simultaneously. Also, the university's modern language requirement is a bachelor of arts degree requirement and not a requirement of a major. Therefore, students earning a second major would not be required to complete the modern language requirement for the second major. However, students earning two degrees would be required to complete the modern language requirement if one of the degrees is a B.A.

All academic majors must consist of at least 30 credits; at least 50% of which must be completed at SRU and 50% of which must be at the upper division (numbered 300 or above).

Academic Minor

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A minor is a set of courses that meet specified guidelines and is designed to allow a sub-major concentration in an academic discipline or in a specific area within a discipline. The minor is recorded on the students' transcripts, providing the students have maintained at least a 2.0 minimum quality point average (some minors may require a higher GPA) for all coursework required for the minor. Courses used to meet the academic requirements of a minor may not be taken on a Pass/No Credit basis.

The minimum credits for a minor shall be no fewer than 18, excluding courses required for professional certification.

A minimum of 6 credit hours of the minor must be upper division (courses numbered 300 and above). For each student at least 6 credits must be completed at Slippery Rock University.

Ordinarily, a minor is a subset of some major. But, 1) a minor may concentrate on an area which involves two or more academic disciplines, each of which is related to the minor, (For example, no major exists in journalism, but the departments of English and Communication jointly offer a minor in journalism, which includes courses from each of the disciplines) or 2) a minor may be offered in a discipline where no major is given. (For example, East Asian Studies.)

Students cannot major and minor in the same discipline/academic area. For example, they cannot major and minor in mathematics, but they can major in mathematics and minor in statistics.

Students may declare minors at any time by completing a declaration of minor form available in the Office of Academic Records and Registration.

The requirements for all minors must be completed prior to the awarding of the first baccalaureate degree. Once graduated, students may not return and add additional minors to their undergraduate record. If students, however, are pursuing a second baccalaureate degree, the majors and minors completed will be added to the transcript under the second degree.

Students are typically responsible for meeting the minor requirements in effect at the time they enter the university or change minors. When students leave the university and are later readmitted, they become responsible for meeting the minor requirements in effect at the time they are readmitted.

If students would benefit from meeting a set of minor requirements other than those in effect at the time they declared their minor or were admitted/readmitted to the university, their adviser may request of the student's academic dean that a different set of minor requirements be met.

Internships

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Slippery Rock University offers a diverse program of internships through which students may earn from 1 to 12 credits. A minimum of 40 hours of work is required for each credit earned. In some cases an internship or other field experience is required for a major. Internships provide students with an opportunity to apply their academic preparation in a variety of professional or occupational settings. Through an internship, students have the opportunity to expand their knowledge and to enhance their learning of the theories of academic disciplines and programs of study through appropriate career-related experiences and to provide them with the knowledge and experience necessary for obtaining certification or licensing. Students may enroll in semester, academic year, or summer/winter internships with governmental agencies, private firms, or non-profit organizations both in the United States and abroad.

Students must have a minimum quality point average of 2.0 in their major (or program where applicable), and at least a 2.0 for all coursework, including the semester previous to placement in an internship. Some majors require a GPA higher than 2.0. The agency, academic department or program may specify higher standards and/or other academic requirements. Acceptance into the internship program must occur prior to registration for the course. Registration in the course, however, does not guarantee placement in the field. Agency supervisors' evaluations are a requirement for completion of the internship and may be a factor in determining the final grade. Students must be at least a junior in good standing at the time they begin the internship.

Interested students should check with their major department for internship information in their fields. Students are permitted to earn no more than 12 credits in any one internship and a total of 15 credits for all internships taken.

Special Recognition of Academic Achievement

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Slippery Rock University faculty and administration place a high value on the academic accomplishments of its students. SRU's academic reputation and its stature in the community of universities are tied inextricably to the scholastic achievements of its students. The university's rich and extensive resources provide a foundation of support for the realization of this goal. Scholarly and dedicated university faculty strive to challenge students' intellectual development and their achievement of excellence. The university community believes that student efforts in the attainment of high levels of scholarship deserve appropriate recognition and officially acknowledges student achievement throughout the academic year.

Academic Honors Convocation

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In the spring, the university observes its Academic Honors Convocation, a formal ceremony with regalia and academic procession. The convocation provides for the recognition of Deans' List students and the twenty students in the sophomore, junior, and senior classes who attain the highest cumulative averages for coursework completed at Slippery Rock University. These individuals are presented with the President's Award of Achievement. The convocation also recognizes scholar athletes, service scholars, academic scholarship recipients, and students on the Deans' list, and serves to set the tone for an academic atmosphere where excellence in scholastic endeavors is given the highest priority.

Academic Honors Month

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During the month of April many of the university colleges and departments honor their students who have excelled academically. The events take various forms, including banquets that are held on and/or off campus where recognition awards are presented. In addition, the director of the Honors Program coordinates a month-long program of lectures, seminars and presentation of papers by Slippery Rock University students and faculty and by special guests.

Dean's List

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Undergraduate students who earn a semester grade point average of 3.500 or higher on a schedule of at least 12 newly earned credits will achieve the Deans' List as long as their cumulative CGPA is at least 2.000. Student teachers may achieve Dean's List status if they have earned 90 or more credits and have a cumulative CGPA of 3.50 or higher at the end of the semester in which they student taught. P/NC courses will not be computed into the 12 credit-hour minimum. During the Academic Honors Convocation, these students will be formally presented to the university community. There is no Deans' List during the summer or winter sessions. Post-baccalaureate and graduate students are not eligible for the Dean's List.

Honors at Graduation

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At both the December and May commencement ceremonies, the university recognizes students who have met the academic criteria for Latin honors.

- Undergraduates working on their first baccalaureate degree may qualify for honors at graduation. Post-baccalaureate and graduate students are not eligible for these honors.
- A minimum of 60 credits must be earned at Slippery Rock University. These credits may include: all SRU credit bearing course work; all credits earned through SRU's credit by exam program, including the NLN Mobility Profile II, administered by the Department of Nursing; SRU credit earned with a "P" grade; and credits earned as a Visiting Student at another PASSHE institution.
- Credits earned by any other form of credit by exam (AP, CLEP, PEP, DSST and NLN (other than the Mobility Profile II), credits earned at other universities (transfer & transient), via military service/schooling, and non-SRU course work taken abroad will not count toward the 60 credit minimum.
- The following cumulative GPA's must be earned to qualify for honors at graduation.

Summa Cum Laude (With the Highest Honor) 3.800 - 4.000

Magna Cum Laude (With High Honor) 3.600 - 3.799

Cum Laude (With Honor) 3.500 - 3.599

No restrictions will apply to students who repeat grades of D or F and who still meet the criteria for honors at graduation.

At commencement, the names of these honor students are specially designated in the commencement program. In addition, the Summa Cum Laude graduates wear medallions around their necks, which are gifts of the Slippery Rock University Alumni Association; Magna Cum Laude graduates wear white honor cords; and Cum Laude graduates wear green honor cords.

Students identified by the director of the University Honors Program as having completed the requirements of the Honors Program will also wear special honor cords at graduation.

Recognition of honors at graduation will be based upon students' cumulative GPA at the end of the semester preceding graduation. Designation of honors on the university transcript will not be determined until the students' final semester grades are submitted and official, final cumulative GPA's are calculated.

Honors Program

[^ TOP](#)

Slippery Rock University's Honors Program is designed to enrich the university experience by fostering a student-centered learning environment and helping each student to develop his or her individual potential as a life-long learner.

Honors courses emphasize reading, writing, and research through discussion-based classes that enable students to explore subjects in greater depth. Students also enhance their education through service-learning opportunities. The Honors Program provides each student opportunities to take full advantage of their time spent at Slippery Rock University through a variety of extra-curricular and travel opportunities.

All honors courses fulfill liberal studies requirements, which means that participation in the program will not extend a student's stay at Slippery Rock University. To graduate with honors designation, students must complete a minimum of seven honors courses (21 credits) while maintaining an overall GPA of 3.25 or higher (3.4 or higher for Honors scholarship recipients). Students can select from a variety of specially-designed courses in the following departments: Communication, English, Geography, History, Mathematics, Philosophy, Political Science, and Psychology.

On occasion, Great Books honors courses are offered. These courses are geared toward in-depth study in a specialized area, and typically involve international travel. Content in these seminars varies and has included Ancient Greek Culture (Greece), The Holocaust (Germany), Latin American History (Panama), Galileo (Florence), and Irish Playwrights (Ireland).

Students may also fulfill Honors requirements through a variety of activities in place of Honors courses: research projects, conference presentations, publications, dual majors and minors, study abroad, and the Compass leadership program.

Honors students enjoy a number of benefits, both in and out of the classroom. These include: smaller honors courses, capped at an enrollment of 25 students per class; early registration privileges; learning experiences through regional, national, and international travel. Every fall, Honors Program students have the opportunity to participate in the National Collegiate Honors Council (NCHC) conference, held in cities such as Denver, New Orleans, Boston, Phoenix, and San Antonio. In addition, courses are offered each spring and summer that provide opportunities for travel abroad. In the past, students have travelled to London, Germany, Turkey, South Africa, Greece, South Africa, Mexico, and Cuba.

The program is open to qualified students in all majors. Interested students need to submit a separate application to the Honors Program. The application requires a two-page essay about their interest in the program and a résumé of extracurricular activities and can be completed online. Interested students should call 724-738-4003, e-mail honorsprogram@sru.edu, or visit the website, www.sru.edu/honorsprogram.

Academic and Student Affairs

Each student is a person of dignity, worth and responsibility who has elected to attend the university for the purposes of attaining an education and to grow and mature through additional learning experiences outside of the classroom.

The goal of Academic and Student Affairs is to assist in the total development of each student by providing appropriate, life-centered educational programs and services. Primary concerns of the various departments focus on helping students to develop leadership skills, decision-making competencies, self-discipline, respect for others, skills of self-evaluation, and the learning and development of social responsibility and human relations skills.

Click on a link to be taken to the entry below.

Student Success

- [Academic Services](#)
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- First Year Studies (FYRST)
- Housing and Residence Life
- Inclusive Excellence
- Off Campus Housing
- Pride Center
- Student Conduct
- Student Health Services
- Student Support
- Women's Center
- Veteran's Services

Academic Affairs and Integrated Learning

- Academic Honor Societies
- Career Education and Development
- Global Engagement
- Honors College
- Library
- Office For Student Engagement and Leadership

Planning and Resource Management

- Accreditation
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- Grants and Sponsored Research
- Planning, Resources, Management and Assessment

University Police

- University Police
- Parking
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Athletics and other student services

- Athletic Programs
- Conference Services, Office of
- Dining Accommodations
- Musical Organizations
- Preschool Child Care Center
- Publications
- Radio and Television
- Robert M. Smith Student Center
- Student Counseling Center
- Theatre Productions

Academic Honor Societies

Blue Key Honor Society recognizes primarily juniors and seniors for scholarship, leadership and service to their campus and community. Students may be in any major course of study to be invited to join, but must have a 3.0 or higher GPA.

Delta Alpha Chi is an academic/professional organization dedicated to the support and enhancement of the Student Affairs in Higher Education Master's Degree program. Membership is open to graduate students in the Student Affairs in Higher Education program.

Gamma Sigma Alpha exists to recognize the academic achievement of fraternity and sorority members at Slippery Rock University. Members of social fraternities and sororities who are juniors or seniors with a 3.5 or higher GPA may become initiated members.

Golden Key is an internationally recognized academic honor society dedicated to excellence. The society's goals are to recognize and encourage scholastic achievement and excellence in all undergraduate fields of study, to unite faculty and administrators in developing and maintaining high standards of education, to provide economic assistance to outstanding members by means of both undergraduate and graduate scholarships and to promote scholastic achievement and voluntary service. Membership is by invitation to juniors and seniors (in all fields) who have achieved a minimum 3.40 GPA.

Lambda Epsilon Delta recognizes outstanding elementary education majors. Students are required to have a 3.000 overall GPA after completing 60 semester credits in order to be eligible for membership.

Lambda Pi Eta recognizes currently enrolled full-time students in good standing majoring in communications. Students are required to have completed 45 credits with a GPA of 3.000 and nine credits in communication courses with a 3.250 GPA.

Lambda Sigma honors sophomore students who have enriched campus life. The honorary is dedicated to the ideals of scholarship, leadership, fellowship, and service. Active members are chosen according to an election system approved by the national board and are initiated in the spring.

Mu Phi Epsilon is an international, professional music fraternity whose purpose is scholarship, musicianship and the promotion of friendship. The fraternity is open to music majors who have a minimum GPA of 2.500 with a minimum GPA of 3.000 in music subjects. Members serve the department by ushering, sponsoring concerts, and participating in community outreach programs.

Order of Omega recognizes students who have attained a high standard of leadership in InterGreek activities. It strives to bring together the most representative fraternity and sorority members with faculty, staff and alumni of the institution.

Omicron Delta Epsilon is the international honor society in economics and is a member of the Association of College Honor Societies. ODE promotes excellence in academic study by restriction of membership to upper division undergraduates who have a B average and at least 12 credit hours of economics with an average grade of at least a B. ODE also publishes *The American Economist*, a journal that accepts manuscripts from graduate and undergraduate students majoring in economics.

Phi Alpha Theta is dedicated to promotion of research, instruction, publication, and exchange of experiences among historians. Students maintaining high academic standards in history and general studies are eligible to become members. The RHO IOTA Slippery Rock Chapter has been selected best chapter in Division III for 1989-90 and 1990-91 school years.

Phi Epsilon Kappa recognizes outstanding health and physical education majors. Fraternity objectives are to elevate the standards, ideals, and ethics of those engaged in the teaching of physical education. Membership requirements include a minimum overall GPA of 2.750 and a 3.000 GPA in all major courses.

Phi Kappa Phi, the nation's oldest and most selective all-discipline collegiate honor society, extended an invitation of membership to Slippery Rock University following a yearlong evaluation. SRU initiated a chapter in the fall of 2004. Founded in 1897, the Phi Kappa Phi society stresses academic excellence and strength of character. Membership in the society is by invitation. Invitations are extended to the top 7.5% of juniors and the top 10% of seniors, as well as outstanding members of the university's faculty, staff and administration.

Phi Sigma Pi is a national, coeducational honor society for all majors. Slippery rock University's Mu chapter was established in 1930, on the three ideals of scholarship, leadership, and fellowship. With this tripod the society strives to make all three ideals dynamic in the lives of its members. Consideration for membership requires the maintenance of a 3.000 GPA, and completion of twelve credits.

Phi Sigma Tau, the Pennsylvania Upsilon chapter of the philosophy honorary was established at Slippery Rock University in February 1984. The aims are expressed in the Greek motto "Philounton Sophian Time," meaning the "honor of those who love wisdom." The goals are to honor academic excellence and philosophical concern. Any student with a cumulative average of 3.000 in at least nine credits of philosophy courses and an overall cumulative average of 3.000 or better is eligible for membership.

Pi Delta Phi aims to recognize excellence in French studies. Members communicate French language and culture to others by tutoring and sponsoring French cultural presentations. To be eligible to join, students must have completed one French course at the 300 level, have a B average in all French courses taken and a 2.900 overall GPA.

Psi Chi aims to provide academic prestige to members by high standards for eligibility, to offer a congenial climate for professional growth, and to make active attempts at nourishing and stimulating that growth. Basis for membership: (1) completion of twelve or more credits in psychology; (2) registration for major or minor standing in psychology or

related program; (3) high standards in psychology or related program; (4) good academic standing; and (5) three-fourths vote of approval for membership at a regular meeting of the chapter.

Psi Chi (Graduate Division) Graduate students are eligible to join Psi Chi after completing 18 semester credits in the counseling program, achieving degree candidacy, and obtaining a GPA of not less than 3.500.

Rho Phi Lambda honors students who have made outstanding contributions to the field of parks and recreation. Initiates must have completed 45 credits with a 3.000 GPA and nine credits of parks and recreation courses with a 3.200 GPA.

Sigma Delta Pi honors those who seek excellence in the study of Spanish language and literature. To become an active member, a student must have completed at least two Spanish courses at the 300 level and have a 3.000 GPA in Spanish and a 2.750 GPA overall.

Sigma Gamma Epsilon is an honorary scientific society devoted to the earth sciences. Delta Tau Chapter holds regular meetings, sponsors field trips, lectures and community service in the earth sciences.

Sigma Rho Delta, the dance honorary, was founded in 1967 and established at SRU in 1998. The goals are to offer service to the department, university, and community; promote unity within the department and between departments; and to further dance and art awareness.

Sigma Sigma Kappa was established in 1981 to foster academic excellence in sociology, anthropology, and social work and to encourage community service. To be eligible for membership, students must have completed nine hours in sociology, anthropology, or social work courses and have achieved a 3.000 GPA. In addition, students must complete ten hours of volunteer service in the community.

109 Bailey Library

724-738-2012

Chairperson

Mark Campbell

Secretary

Jennifer Stroup

Faculty

Mark Campbell, Annette Salsovic, TBA, TBA

Academic Services Program

The Academic Services Department coordinates a wide range of programs such as the FYRST Seminar, Learning Community Clusters, Basic Mathematics, the Tutorial Center, the Math Emporium, the College Success Workshops, and academic advisement for all Exploratory/Undeclared students. The department also coordinates all re-admissions of students returning to the University.

First Year Studies begins with a Rock Solid Orientation

FYRST begins with an orientation program during which students are introduced to the campus, to a FYRST faculty advisor, and to many institutional resources and services. New student orientation is designed to help students achieve a successful transition to university life. Slippery Rock employs new and innovative ways to greet new students in their

first few days on campus and assist them continually throughout their first year. New students who are admitted early have the opportunity to attend an early orientation program in the spring of their senior year. These students receive a head start on their college experience by scheduling for classes, receiving financial aid information, making and securing living arrangements, and meeting new friends, faculty, and college staff. The orientation program, which is conducted in June, is comprised of an overnight experience and more time to explore the campus and its resources. In August, new students are invited back to campus prior to the beginning of the fall semester for a welcome orientation session.

Academic Advisement

Academic Advisement is perhaps the most important faculty/student relationship outside the classroom. The University's academic advisement system is comprised of two primary organizational structures that include First Year Studies advisement and upper-class student/transfer student advisement.

First Year Studies (FYRST) Advisement

All academic advisement of new freshmen is coordinated and directed by FYRST. The mission of FYRST advising is to personalize the first year by ensuring that every student receives a high standard of academic advisement services from pre-enrollment to orientation, and throughout the student's first year. FYRST advising provides assistance that will help students to acquire the knowledge and skills necessary to select an academic program or major which best suits their individual abilities, interests and career goals. During the student's enrollment in FYRST, he/she should develop a more thorough understanding of his/her own purpose and goals in college as well as those of the university. If a new freshman has declared a major, advisement will be provided by a faculty member selected from the major department. If no major has been declared, the student will be actively involved in the Exploratory Program and advised by a selected faculty member from Academic Services who has volunteered to work with students who have not decided upon a major. Progression through FYRST will be assisted by the faculty advisor, however, it is the student's responsibility to see that he/she meets all requirements of the degree granting college so that upon completion of the first year of study, the student has attained the minimum number of credits, the specified courses and the minimum grade point average required by the major department.

Upper-class Student/Transfer Student Advisement

As a student progresses from FYRST to the degree-granting college, some departments may reassign their students to different academic advisors during the upper-division years, while other departments may permit the student to retain the FYRST advisor throughout his/her years of study at the university. Upon entrance into the university, new transfer students are assigned academic advisors from their major program.

Exploratory (Undeclared) Program

Students entering the university who are exploring majors participate in the Exploratory Program. These students are advised by FYRST advisors in Academic Services who volunteer their time to advise students as part of the Exploratory Program. The faculty identified as FYRST Exploratory advisors have an interest in and a commitment to assisting new students in their transition to college life. Nearly all Exploratory students are advised by members of the Academic Services Department.

Advisement Development

The Academic Services Department is responsible for developing advisor and student advising resources, conducting advisor training and first year student advising informational workshops, and maintaining its involvement in retention-related and first-year research activities.

Learning Community Clusters

The university implemented a learning community cluster program which includes a freshman seminar for the purpose of improving students' academic and social integration and establishing an educational environment that maximizes both student-student interaction, student-faculty and student-professional staff interaction. The transition to university life can be challenging and even stressful. The academic and social advantages provided by joining a learning community cluster and freshman seminar initiative can help reduce that stress. By enrolling in the same classes, students are encouraged to meet new people, make friends easily, form study groups, participate in class discussions, and become engaged with their professors.

Research has shown that the more students connect to the university, the more successful they are in their college experience. Our research shows that by enhancing a student's sense of community and involvement, the freshman seminar and learning community clusters contribute to higher retention rates. Because both freshman seminars and learning communities promote active learning and foster collaboration and cooperation, students who participate are higher achievers and more involved in their classes.

Freshman Seminar (FYRST Seminar)

The freshman seminar course is designed especially to enhance the academic, social, and personal integration of the student by focusing on transition topics related to the college environment (e.g., time management, active learning strategies, note-taking skills, test preparation, goal setting, use of campus technology, academic advising, major and career exploration, professional development in the technology fields, diversity, relationship issues, and issues of wellness).

Academic and Learning Assistance Resources

Available online from the Academic Services Department are a series of academic and learning assistance resources for students. This resource center offers free materials on first-year and academic transition tools; learning assistance resources on time management, effective reading, test preparation, test taking and note taking; and academic advising resources on scheduling tips, grade point average calculations, and information on major and career selection.

Tutorial Center

Slippery Rock University's Tutorial Center assists undergraduate students in meeting their academic goals with free peer individual and group tutoring services, study skills workshops, and Supplemental Instruction (SI). Emphasis upon basic skills and upon the Liberal Studies areas, study skills instruction and support, communication with faculty, and extensive training and supervision of tutors meet students' immediate academic and content based needs and provide them with effective and transferable study skills. Tutorial services at Slippery Rock University are personalized and tailored to individuals' academic needs.

Tutoring services also include the proactive Supplemental Instruction (SI) model for academic assistance. Students hired as leaders attend assigned classes and work closely with enrolled students to model and teach study skills strategies. Leaders facilitate group-tutoring sessions emphasizing cooperative learning activities.

Individual tutoring sessions for students are scheduled by appointment or on a drop-in basis, whereas group and SI sessions are scheduled to accommodate the greatest number of interested students.

College Skills Workshops

During the fall, the Tutorial Center offers an array of workshops designed to help students succeed in college. All students are eligible to participate in the workshops on such topics as managing time, taking effective class notes, reading texts, building a strong memory, increasing test-taking skills.

Athletic Programs

Always a strength at Slippery Rock University, intercollegiate athletics include a varied array of sports and make an important and meaningful contribution to the total educational objectives of the university. The strength of the SRU intercollegiate athletic program is its academic accountability, as well as its desire for excellence in all 17 of the university's varsity teams. The list of competitive, intercollegiate teams for women includes cross country, tennis, volleyball, soccer, and field hockey in the fall; basketball and indoor track in the winter; lacrosse, softball and track & field in the spring. The men's sports include football, soccer, and cross country in the fall; basketball and indoor track in the winter; and baseball and track & field in the spring. Slippery Rock University is a member of the Pennsylvania State Athletic Conference (PSAC) and the National Collegiate Athletic Association (NCAA), Division II.

The Office of Campus Recreation is responsible for multiple programs and facility operations. The programs and facilities have been designed to promote the wellness dimensions including physical, mental and spiritual health. Campus Recreation offers a variety of lifetime sports and fitness activities that provide exciting opportunities to **"Rock'n Recreate"**. Within each of the program areas there are Perk Programs which are provided **FREE** of charge to SRU students and ARC Members and Pay to Play Programs.

All Slippery Rock University undergraduate and graduate who pay the Student Recreation Center fee have access to the following programs and facilities. Students who have not paid this fee have the option to invest in an ARC membership to secure access.

Campus Recreation Program areas consist of:

Aquatics: Primary programs offered include swim instructions arthritic stretch, aquatic group exercise classes and water polo.

Climbing Wall Programs: Program offerings include informal recreational climbing and bouldering and intramural events and extramural climbing completions.

Group Exercise: Classes are FREE to all SRU students and ARC Members. These classes are designed to improve cardiovascular health and body composition. Contemporary aquatic, land and spinning classes are conducted by nationally certified instructors throughout the calendar year.

Informal Recreation: Unstructured recreation at one's own convenience and leisure are available in each are of the ARC providing opportunities for pickup games of basketball, volleyball, soccer, deck hockey, pickleball or badminton as well as lap swimming, running/walking on the indoor track, fitness workouts or scaling the ROCK wall.

Intramural Sports: Intramural Sports provide a variety of team, individual and dual sports and skill levels of competition throughout the academic year. Participants organize their own teams and compete for the coveted Intramural Championship Mugs and T-Shirts. In addition, intramural sports participation affords a fine opportunity to develop the essential qualities of leadership, cooperation, self-reliance, and sense of fair play and to form warm friendships that will endure throughout the years. Each and every SRU student is invited to participate in as many activities as he/she desires.

Open Kayak Sessions: Sessions are offered **FREE** to students throughout the academic year, in the ARC's Aquatic Center. The program offers the opportunity to practice essential kayak paddling strokes and maneuvers. No previous experience is necessary to enjoy this opportunity. Instructors are available for limited instruction. Campus Recreation provides all equipment.

Outdoor Adventures: This program is designed to provide outdoor recreation services and educational experiences to the Slippery Rock University campus and community. The Outdoor Program trips and clinics offer opportunities to increase outdoor recreation skills, leadership development and environmental awareness.

Russell Wright Fitness Center (RWFC) Programs: A number of fitness programs are offered assist all students in enhancing their exercise programs and improving their fitness levels as well as a more proficient use of fitness center. Included in these offerings are fitness assessments, equipment orientations, personal training, cross training classes, Rock personal training and Wright personal training.

Safety Certifications: American Red Cross Safety Certification programs are offered throughout the year. Class offerings include life guarding, CPR, first aid or Water Safety Instruction (WSI) and challenge opportunities for recertification.

Sport Clubs: These clubs provide opportunities for students with similar interests to participate in various sport and recreational activities. Sport Clubs bridge the gap between intramural and intercollegiate athletics by providing competition at specialized levels, participation in tournaments and opportunities to practice. New clubs can follow the procedure to become a recognized Slippery Rock University organization registering with the Center for Student Leadership, located in the Smith Student Center.

Campus Recreation Facilities are listed below. Access to the Aebersold Student Recreation Center (ARC) is available to faculty/staff, alumni and the general public with the purchase an ARC Membership.

Aebersold Student Recreation Center: The ARC is an 82,000 square foot, state of the art recreation facility that includes an aquatic center, 44 foot climbing wall, indoor track, five multipurpose sport courts, Rock Pride Mezzanine (RPM) multipurpose room, Fitness Mezzanine and a vending and TV lounge areas. The ARC's RWFC is equipped with cardiovascular, free weight and selectorized equipment as well as a fitness lab.

McFarland Recreational Sports Complex: The "MAC" is home to intramural and club sports. The facility offers two softball fields, four multipurpose sports fields, a rugby field, hockey rink/basketball courts and an exercise pathway. All components of the MAC are lighted with the exceptions of the Rugby field and hockey rink/basketball courts. Reservations for field use must be submitted to Campus Recreation at 724.738.4895.

Ski Lodge and Campground: Located a quarter mile north east of the ARC (next to the ROCK Apartments) the Ski Lodge offers a variety of opportunities for students to gather on campus. Shower and restroom facilities are available inside of the lodge. The Campground, located adjacent to the Ski Lodge, offers both primitive and electrical campsites. Ski Lodge and campground reservations can be made by contacting Campus Recreation at 724.738.4895.

Career Education and Development, Offices of

124 Bailey Library
724-738-2028

Director
John Rindy

Associate Director

John Snyder

Assistant Director

Renee Coyne

Secretary

Lisa Theodorson

The Office of Career Education and Development offers services to assist students in planning and pursuing a satisfying career. The services include appointments for selecting a major and career counseling, career interest inventory assessment, on-campus professional interviews, on-campus and off-campus job fairs, job vacancy listings, video mock interviews, administration of several standardized tests including Praxis, MAT, and the GRE Subject tests, and resource information about summer and professional employers, graduate schools, and job search preparation and strategies. Career Education provides a technology-based career resource center that is equipped with Dell computers, HP laser printers and supporting software. FOCUS, a web based vocational guidance program is available to assist students to engage in career assessment and exploration. Students are able to respond to internship and employment opportunities advertised on the internet to access employer information, and to develop quality resumes and cover letters in printed form or for electronic transmission.

Undergraduate students are encouraged to contact the office for information about summer and/or part-time off-campus employment opportunities. The office web page provides more details about services and staff www.sru.edu/career.

Conference Services, Office of

724-738-2027

The Office of Conference Services, OCS, oversees summer camps and conferences. Additionally, it handles all the academic building reservations for on campus groups as well as external rentals of academic buildings.

Dining Accommodations

The dining program at Slippery Rock University offers a variety of services throughout the campus for students and their guests. Food service is available somewhere on campus from 7:00 a.m. to 12:00 midnight (Sunday through Thursday) and 8:00 a.m. to 10:00 p.m. (Friday and Saturday).

Weisenfluh Hall, located across from North Hall parking lot, features The Restaurants at Weisenfluh, developed to offer the campus community and guests an innovative and international dining experience. The four restaurant concepts offer Mexican and Pan-Asian cuisine, signature burgers, fusion wraps, pub food, and healthier fast-food options. A coffee shop features a variety of pastries, specialty coffee drinks and smoothies. Dine in or purchase food to go. The facility provides lounge and table seating, wireless environment, student gathering spaces, and meeting rooms.

Boozel Dining Hall, located on the lower end of campus, provides a variety of menu options in a restaurant-style atmosphere. Food stations with open kitchens offer made-to-order items along with home-style and international entrees, vegetarian and healthy choice options, deli and grille sandwiches, pizza and pasta, soup/salad, and a variety of desserts and beverages. A food intolerance line provides specialty items for those customers with food allergies/intolerances. This all-you-care-to-eat facility also features Boozel Xpress a take-out option located in the lobby, special events, holiday celebrations, and monotony breakers.

Robert M. Smith Student Center, located on lower campus, houses the following food service operations:

- Starbucks - a full-service store featuring breakfast items, pastries, sandwiches, Starbucks full beverage line and merchandise.
- Rocky's - a food court offering Mexican cuisine, pizza/pasta, wraps, chopped salads, hoagies, and grab-n-go items.
- Quaker Steak & Lube - featuring their signature wings, burgers and appetizers.

T & B Naturally, a coffee shop located in Bailey Library, features organic and fair-trade products, pastries and grab-n-go items. A walk-up window provides quick service for those students hurrying through the quad.

Flatz at Watson Hall, located in the residential village, offers a variety of to-go food items and beverages.

There are a number of meal plan options available to Slippery Rock University students. Students residing in a university-managed residence hall sign a housing/food service contract. Once signed, these become binding contracts. The only reason for exemption from the meal contract will be suspension or withdrawal from the university. Meal contracts are optional for off-campus/commuter students.

Disability Services

105 University Union
724-738-4877

Director, Office of Disability Services

Natalie E. Burick

Secretary

Suzanne Sandrock

The Office of Disability Services provides accommodations and services to ensure equal access to education as intended by Section 504 of the Rehabilitation Act of 1973, as amended, and the Americans with Disabilities Act of 1990 (ADA) for students with disabilities including but not limited to learning, physical, hearing, vision or psychological disabilities. At Slippery Rock University we want all students to achieve academic success, and are interested in making every effort to accommodate and serve students with disabilities. To be eligible for services appropriate documentation must be provided. Documentation may include medical diagnosis, psychological evaluations, etc. Upon acceptance to Slippery Rock, students with disabilities are encouraged to make an appointment with the Director so a personal interview can be scheduled. Also, students wishing to receive accommodations can start by filling out the public request link at: https://sru-accommodate.symplicity.com/public_accommodation/

First Year Studies (FYRST)

First Year Studies exists to support the teaching and learning process. The FYRST Program is designed to ease the transition into college life by providing a coordinated effort of offering academically based support services to students. The area has primarily one goal—to facilitate the student transition from high school or work to the university. Structurally, FYRST is the home of all new freshmen, organized within the Division of Student Success. FYRST is managed out of The Department of Academic Services.

The majority of the university's academic support services are coordinated and delivered to new students by FYRST. Specifically, FYRST includes spring and summer orientation programming initiatives, first and second year academic advising, advising for exploratory students, learning community clusters, freshman seminar, tutoring, supplemental instruction, developmental math coursework, early-alert retention-based initiatives, academic support services designed

especially for first-year academically-challenged students, and support services for students who fall into academic difficulty during their college experience.

FYRST is about creating successful learning experiences for students in and outside the classroom. Progression through FYRST is to be assisted by the faculty advisor, however, it is the student's responsibility to see that he/she meets all requirements of the degree granting college so that upon completion of the first year of study, the student must attain the minimum number of credits, the specific courses and the minimum GPA required by the major department. Through setting high goals and commitment to meeting those goals, new freshmen are to be able to support their efforts through FYRST and make a successful transition.

Global Engagement, Office for

724-738-2057

Secretaries

Lisa Patricelli, Brenda McKissick

Office for Global Engagement

The mission of the Office for Global Engagement is to provide international experiences for Slippery Rock University students and staff to pursue academic and cultural exploration and growth.

International Student Services

In recognition of the unique needs of students who are not US citizens/permanent residents, the Office for Global Engagement coordinates the recruitment, admission and support services for international students such as orientation to the United States and Slippery Rock University; immigration and legal matters (documentation for visas, passport renewal, extensions of stay, travel and reentry, work permits, etc.); support for the Internations Club; course registration; cultural/academic/personal adjustment; and community liaison.

Study Abroad Opportunities

International study programs are available to all Slippery Rock University students varying in length from one week to one year. These offer students the opportunity to explore different educational systems, cultures, and ways of life, as well as to foster personal growth, cultural enrichment and enhanced employment opportunities.

The following are available for semester and academic year study:

Australia (Melbourne): 12-18 credits per semester at Victoria University in liberal studies and most SRU majors.

Belgium (Brussels): 12-18 credits per semester at IHECS or Artevelde University College Ghent in liberal studies and most SRU majors.

China (Nanjing): 12-18 credits per semester at Nanjing University in Chinese language, history, and culture. A minimum of one semester of previous Chinese language study is required.

China (Shanghai) 12-18 credits per semester at Shanghai Studies International University in Chinese language, history, and culture. Chinese language study may be required.

England (Bradford): 12-18 credits per semester at Bradford University in liberal studies and most SRU majors.

England (Canterbury): 12-19 credits per semester at Canterbury Christ Church University in liberal studies and a variety of SRU majors

England (London): 12-18 credits per semester at Kingston University or Rehampton University in liberal studies and most SRU majors.

England (Middlesbrough): 12-18 credits per semester at University of Teesside in liberal studies and most SRU majors.

France (Cannes): 12-18 credits per semester at College International de Cannes in French language and culture.

Germany (Bamberg): 12-18 credits per semester at Otto Friedrich University Bamberg, German language study and limited liberal studies options.

Hungary (Budapest): 12-18 credits per semester at University of Physical Education for physical education.

India (Rajasthan): 12-18 credits per semester at Rajasthan Vidapeeth University in liberal studies an a variety of SRU majors.

Ireland (Dublin): Fall semester student teaching available as a second placement site in the Irish public school system.

Ireland (Limerick): 12-18 credits per semester at University of Limerick in liberal studies and a variety of SRU majors.

Japan (Osaka): 12-18 credits per semester at Kansai Gaidai University in Japanese language, business, social sciences, culture/humanities. A minimum of one semester of previous Japanese language study required.

Japan (Saga): 12-18 credits per semester at Saga University in Japanese language and potentially a variety of other majors. A minimum of one semester of previous Japanese language study required.

Mexico (Mexico City): Spring semester student teaching is available as a second placement site at the American School Foundation.

Mexico (Mexico City): 12-18 credits per semester at Universidad Iberoamericana in Spanish language and culture. Classes are also available in English, in a variety of other majors.

New Zealand (Invercargill): 12-18 credits per semester at Southern Institute of Technology in liberal studies and a variety of SRU majors

Poland (Poznan): 12-18 credits per semester at University of Arts for Art majors/minors.

Scotland (Edinburgh): 12-18 credits per semester at Queen Margaret University in liberal studies and a variety of SRU majors.

Slovakia (Bratislava): 12-18 credits per semester at Comenius University in liberal studies and a variety of SRU majors.

Slovakia (Bratislava): 12-18 credits per semester at Academy of Fine Arts and Design for Art majors/minors.

South Korea (Kangwon): 12-18 credits per semester at Kangwon National University in Korean language and culture. A minimum of one semester of previous Korean language study is preferred.

Spain (Madrid): 12-18 credits per semester at University of Alcalá de Henares in Spanish language and culture.

Sweden (Kristianstad): 12-18 credits per semester at Kristianstad University in liberal studies and most SRU majors.

Wales (Aberystwyth): 12-18 credits per semester at Aberystwyth University in liberal studies and most SRU majors.

Summer programs are offered by Slippery Rock University professors in international locations that vary each year, ranging from one to three weeks in length. Three to six credits can be earned, recent classes have met in Canada, Costa Rica, England, France, Ireland, Italy, Scotland and Spain.

January and spring break seminars offer a 7-10 day international trip in conjunction with coursework during the regular spring semester or over winter break. Locations and faculty leaders vary per year.

Additional opportunities for summer or semester study may also be available via third party program providers.

Financial aid may be applied to most study abroad; further details available from the SRU Financial Aid Office. Travel stipends are also available to SRU students to subsidize travel costs.

Additional services through the office include passport applications, International Student I.D. cards, travel arrangements, etc.

Health Services

The McLachlan Student Health Center is located along Campus Drive in Rhoads Hall. Student Health Services supports the university's mission of enhancing the educational process by providing quality health care and promoting an optimal level of health and wellness among the student body. A cost-effective, comprehensive, and holistic approach to health care is provided in an accredited, confidential setting. Health care is provided by certified registered nurse practitioners in collaboration with a licensed physician. The health center is staffed by registered nurses, 7 days/week, 24 hours/day during the academic year (except scheduled break periods). Van transportation is provided as available.

The facility includes an outpatient clinic, nurse observation area, a health promotion department with educational resources, and a self-care center. The student health fee covers routine care, which may include flu vaccine, nurse observation area, educational materials, and the self-care center. The student is responsible for all additional medical expenses that may be required, such as lab tests, x-rays, referral to specialists or dentists, hospitalization and medications. Specific questions can be addressed by calling 724-738-2052.

Medical Visit Verification

Student Health Services (SHS) will issue a Medical Visit Verification form to students who request written documentation of SHS utilization. The verification form is designed to provide the date, time and duration of treatment. It is the student's responsibility to forward the Medical Visit Verification form to their professor/employer.

Absence policies are determined by the individual professors. It is the student's responsibility to be aware of these and do their part to meet the class requirements. Student Health Services does not have the authority to excuse students from class attendance.

Health Insurance

All students are encouraged to be covered by health and accident insurance. While it is not mandatory to carry insurance, it is advisable. (*Note: International students are required to carry health insurance and must make acceptable arrangements with the Office for Global Engagement. Athletes must meet insurance requirements as defined by the Athletic Office.*)

Students may already have benefits through their family plan, an independent source, or elect to purchase student health insurance. Information about insurance options is available by visiting: <http://www.sru.edu/offices/student-health-services/health-insurance-for-students>

Insurance information should be included on the Health forms and submitted to Student Health Services as part of the student's record using the secure website <https://studenthealthportal.sru.edu>

HOPE Peer Education Program (Healthy Outreach through Peer Education)

The HOPE program is one health promotion method used by Student Health Services to educate the student body on issues related to their wellness and personal development. The HOPE Peer Educators are trained to provide educational programs for fellow students on issues such as underage and dangerous drinking, safer sex, stress management/resiliency, nutrition, bystander intervention, general wellness and more. Students interested in scheduling a program or in becoming a peer educator should contact the Health Educator at 724-738-2251.

Protection Connection

Developed in 1998 in response to student suggestions, the Protection Connection offers a variety of safer sex supplies to the student population. The purpose of this service is to encourage safer sex practice among students who choose to have sex. Condoms are the only method that provides students who choose to have sex a way to reduce their risk of sexually transmitted infections. Supplies are available to students at reduced cost. The Protection Connection is staffed by HOPE Peer Educators, trained students who are knowledgeable about sexually transmitted infections and risk reduction. The Protection Connection is located in the Student Health Center. Hours and supplies vary. Students who have questions or are interested in purchasing safer sex supplies can contact the Protection Connection at 724-738-4888.

Boost

Based upon the needs and students' desire to receive more information on stress reduction, Student Health Services is offering more services to support students' emotional well-being. One of those new programs is Boost! Boost is focused on the emotional and social wellness dimensions. This is a great way for students to connect with other students on campus and learn about campus resources. Students who participate in the program will be matched with a trained Boost Peer Coach. The participant will have the opportunity to meet weekly one-on-one with the Boost Peer Coach. Each session is unique to the participants needs and goals. Boost will offer problem solving assistance, offer decision making assistance and provide non-judgmental support. Boost will not provide formal therapy or clinical treatment and does not replace professional support. Boost is a free program open to all students. The reasons to sign-up for Boost vary, but examples include enhance or maintain personal wellness, manage time more efficiently, get connected or involved on campus and manage or reduce stress. For more information about Boost, please contact the Coordinator of Health Promotion at 724.738.4206.

Honors College

Office: 336 Patterson Hall

Phone: 724-738-4003

Email: honorscollege@sru.edu

Director

Dr. Jason Hilton

Secretary

Rachelle Drake

Slippery Rock University's Honors Program is designed to enrich the university experience by fostering a student-centered learning environment and helping each student to develop his or her individual potential as a life-long learner. Honors courses emphasize reading, writing, and research through discussion-based classes that enable students to

explore subjects in greater depth. Students also enhance their education through service-learning opportunities. The Honors Program provides each student opportunities to take full advantage of their time spent at Slippery Rock University through a variety of extra-curricular and travel opportunities.

All honors courses fulfill liberal studies requirements, which means that participation in the program will not extend a student's stay at Slippery Rock University. To graduate with honors designation, students must complete a minimum of seven honors courses (21 credits) while maintaining an overall GPA of 3.25 or higher (3.4 or higher for Honors scholarship recipients). Students can select from a variety of specially-designed courses in the following departments: Communication, English, Geography, History, Mathematics, Philosophy, Political Science, and Psychology.

On occasion, Great Books honors courses are offered. These courses are geared toward in-depth study in a specialized area, and typically involve international travel. Content in these seminars varies and has included Ancient Greek Culture (Greece), The Holocaust (Germany), Latin American History (Panama), Galileo (Florence), and Irish Playwrights (Ireland).

Students may also fulfill Honors requirements through a variety of activities in place of Honors courses: research projects, conference presentations, publications, dual majors and minors, study abroad, and the Compass leadership program.

Honors students enjoy a number of benefits, both in and out of the classroom. These include: smaller honors courses, capped at an enrollment of 25 students per class; early registration privileges; learning experiences through regional, national, and international travel. Every fall, Honors Program students have the opportunity to participate in the National Collegiate Honors Council (NCHC) conference, held in cities such as Denver, New Orleans, Boston, Phoenix, and San Antonio. In addition, courses are offered each spring and summer that provide opportunities for travel abroad. In the past, students have travelled to London, Germany, Turkey, South Africa, Greece, South Africa, Mexico, and Cuba.

The program is open to qualified students in all majors. Interested students need to submit a separate application to the Honors Program. The application requires a two-page essay about their interest in the program and a résumé of extracurricular activities and can be completed online. Interested students should call 724-738-4003, e-mail honorscollege@sru.edu, or visit the website, www.sru.edu/academics/honors.

Housing and Residence Life

The philosophy of university residence halls at Slippery Rock University is educational and intended for student development that maintains that residence halls are not merely places to eat and sleep, but rather, communities in which students grow and develop. This development occurs in out-of-class learning experiences through participation in various activities assisting development at a personal, social and academic level. To achieve these objectives, the Residence Life staff offer opportunities to meet a wide variety of needs. Full-time professional staff members known as Assistant Directors of Residence Life supervise the on-campus residence halls. These Assistant Directors have a master's degree in college student personnel, counseling or related field. Additionally, each residence hall is staffed by a live-in Graduate Resident Director. These students, who are enrolled in graduate programs including Student Affairs in Higher Education, or other related program at SRU, reside in the residence hall and assist with the supervision of the Community Assistant staff. These Graduate Resident Directors are available to handle emergency situations because of their hall residency. Each residence hall floor section has a Community Assistant available to provide educational and social programs to assist in the operation of the facility, offer support for the residents, and be available for emergency purposes. These staff members are full time students who have been selected for their skills and ability to be academic and personal role models.

There are eight university-managed residence halls and one apartment complex, housing approximately 2,800 men and women. Six of the eight residence halls offer suite style housing with a variety of room styles. Each of the residential suite units provide in room bathroom facilities for the residents of that unit. The remaining two halls are traditional

style with double and triple rooms and communal restroom facilities. All SRU residence hall and apartments are air-conditioned.

Residence hall rooms and apartments are furnished with beds, chairs, desks, and window covers (shades). The beds are supplied with a mattress only. Students furnish their own blankets, pillows, towels, bedspreads, dresser covers, pillowcases, and sheets. Students may bring their own drapes and other accessories to personalize their living environment. Self-service laundries are available in each apartment building and residence hall. Lounges and recreation areas are available in each hall. A refrigerator and microwave are provided in each of the residential suite style units. Common kitchens equipped with microwaves and oven is available in each of the residence halls for students to cook snacks.

Residence Life is responsible for housing students who select to live in a university-owned residence hall. All freshmen, except those who live with their parents or legal guardians within a reasonable commuting distance, are required to live on campus. While the University provides housing for non-traditional students, freshmen over the age of 21 may request permission to live off campus. All such requests must be sent in writing to the Office of Residence Life. The Housing Appeals Committee will review all requests. During the month of January, current students submit housing agreements for the following year. These materials are provided to all residence hall students

Slippery Rock University has a diverse student population living in university residences. Therefore, in compliance with the Pennsylvania Fair Education Practice Act, all residence assignments are made without regard to race, religion, color or national origin. Having accepted the Act, the university believes that a cross section of cultures provides a pluralistic community environment and exceptional opportunities for student development.

The Office of Residence Life provides sixteen living learning communities for residence hall students. These communities offer an opportunity for students to apply to live with other students who share similar interests and majors. Information regarding the living learning communities is provided along with housing agreement materials.

Students who reside in university-owned residence halls must contract to eat in the university dining facilities. No extensive cooking is permitted in the residence halls.

For Graduate students who wish to live on campus, we offer traditional halls and residential suites. In addition, we do hold 20 beds in our ROCK Apartment area specifically for graduate students. The ROCK Apartment has a full kitchen, shared bathroom area and 4 single bedrooms. The apartments are fully furnished and do not require students to have a meal plan.

Campus residence halls will be closed to all students during university vacation periods and also between summer sessions and semesters. All students will be expected to leave the residence halls no later than 24 hours after their last examination. A designated residence hall will be open for summer sessions. Break housing is made available for an extra per night fee for those who sign up during certain break periods (such as Thanksgiving and Spring Break).

Students must vacate their rooms within 12 hours of withdrawal from the university, unless written permission is received to remain for a longer time period.

Housing, Off-Campus

Off-campus housing is available in privately owned apartment complexes, rooming houses and homes. The University does not inspect or approve off-campus housing. Housing within the borough of Slippery Rock must comply with the housing code for property maintenance of the borough, which sets legal standards for safety (sanitation, freedom of hazards, etc.) and livability (water, ventilation, heat, etc.). Housing in the township does not fall under the jurisdiction of the Slippery Rock Borough zoning laws, but it must meet minimal health standards as determined by Butler County.

In addition to this housing, a number of rooms and apartments are available in the community. Off-campus housing lists are available via www.places4students.com. Students who live off campus may contract to eat in the university dining facilities.

ID Cards

The SRU Rock ID card is your official Slippery Rock University photo identification card and more! It offers you a convenient, easy, and safe way to make purchases and utilize campus services. The SRU One Card is your meal card; library card and activity card all rolled into one. For those students living in a residence hall, it provides access to your building. The ID card is also used as identification for cashing checks at the SGA Bookstore or in town and to withdraw materials from the library. The ID Card Office is located in the University Union along with the Parking Office.

Inclusive Excellence, Office for TOP

The Office for Inclusive Excellence (OIE) creates opportunities for all students to excel at Slippery Rock University and beyond. Grounded in the Social Change Model (Higher Education Research Institute, 1996) the office offers programs and opportunities designed to create productive campus citizens who can effectively work with others and bring about positive social change.

OIE provides mentoring and coaching designed to offer academic and social support, build individual capacity and self-efficacy, and connect students to the University community; creates opportunities for all students to explore and celebrate cultures and identities in a safe and supportive atmosphere; and gives voice to the needs of students while teaching them to be positive advocates for change.

The Office for Inclusive Excellence is established in an understanding of diversity that welcomes people of all abilities, ages, ethnicities, genders, nationalities, races, religions, spiritual traditions, socio-economic classes, and sexual orientations. Our goal is to practice inclusive excellence so that it is implemented and accomplished consistently throughout the institution.

Library

Bailey Library supports the mission of Slippery Rock University by developing collections and services that make the Library integral to the learning process, both within and beyond the classroom. The University has committed to an ongoing, multi-phased, renovation of Bailey Library to enhance the facility and better serve the needs of the 21st century academic student.

To succeed in its mission the library and its dedicated faculty and staff provide:

- A full range of resources and services supporting classroom instruction and distance education;
- Personal Librarians who offer individualized research assistance, maintain subject collections in areas of expertise, contribute specialized online resource guides, provide collaborative classroom instruction for courses in every major at the University, and assist with reference inquiries in the Research Services area and one-on-one in their offices;
- Holdings which include print and electronic books, government documents, print and electronic journals, newspapers, DVDs, audio books, archival records and special collections;

- Recently updated formal and informal group and individual learning spaces for scholarly work and recreational reading;
- Interlibrary loan and document delivery services providing quick access to content that is not directly available through the Library's own collections and databases;
- Over 300 public access computers, including over 100 laptops that can be checked out for use anywhere in the building on the library's wireless network;
- The Technology Learning Center (TLC) offering students peer-to-peer assistance with technology issues encountered while completing assignments or while creating content in various software applications;
- A newly-renovated Instructional Materials Center (IMC) providing Education students with textbooks and audiovisual materials needed to teach in elementary or secondary school classrooms, as well as films and audio recordings for all members of the University community;
- A newly-renovated University Archives, containing collections and records of enduring research and historical value created by the University community;
- A newly-renovated Special Collections Room, providing students with hands-on access to rare books and collections related to Pennsylvania history, Japan, local authors, and much more;
- Electronic resources accessible from anywhere on the University network and from off-campus with appropriate network authentication;
- T&B Naturally, a popular café that offers organic pastries, smoothies, specialty coffee drinks, juices, bagel sandwiches, and other snacks items.

The library's collection is constantly evolving to stay current with the academic demands of the 21st century library. More information is available at <http://www.sru.edu/academics/bailey-library>.

Library hours of operation are posted on the Bailey Library homepage. For additional information contact the library at 724-738-2058.

Bailey Library Faculty provide university faculty and students with research and references services for all courses and subjects in the Academic Catalog. Information on how to contact them may be found on the library website, or via Bailey Library's Ask A Librarian portal: <http://sru.libguides.com/aalportal>.

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Musical Organizations

In conjunction with the regularly scheduled student and faculty recitals, the university maintains the following well-developed musical organizations, which contribute to the wealth of fine music on the campus:

University Choir. This large choral ensemble consists of 50 to 70 men and women, chosen by audition, study who study and perform the great choral literature from the Renaissance to the present. Concerts are presented on campus and on tours.

Chamber Singers. This is an auditioned, small ensemble of well-blended voices selected and trained for the performance of madrigals and other chamber vocal music.

Marching Pride. The band performs during the half time at football games, both home and away, and for other special events and throughout the region. Much of its music is arranged specifically for the group. The Marching Pride holds auditions for music majors and non-majors to be placed in this corps-style marching ensemble. The group meets only in the Fall semester.

Concert Band. This group consists of music majors and non-majors interested in band literature. The Concert Band members are carefully selected to provide a balanced instrumentation. Concerts are given by this group on campus and on tour. This group meets only in the Spring semester.

Jazz Ensemble. The Slippery Rock University Jazz Ensemble rehearses jazz literature from all eras of jazz history including big band, be-bop, hard-bop, fusion and contemporary. This ensemble often performs with guest artists of national and international stature, both on and off campus. Membership in this ensemble requires an audition.

Jazz Lab Band. The Jazz Lab Band performs jazz literature from all eras of jazz history including big band, be-bop, hard-bop, fusion and contemporary. This ensemble performs at least one concert per semester, but it is focused primarily on reading music during rehearsals. Membership in this ensemble requires an audition.

Jazz Combos. The combos rehearse and perform small-group jazz literature from all eras of jazz history, and often include original student compositions. These groups perform at least one formal concert per semester, but also play for community events and festivals, and tour through the region. Membership in these combos requires an audition which includes improvisation.

Orchestra. The Orchestra is a symphonic-sized ensemble comprised of strings, woodwinds, brass and percussion. All string players are eligible. Woodwind, brass and percussion players are to consult with the director prior to registering, and all musicians are subject to an audition for placement and/or entrance into the group.

Chamber String Ensemble. The selected members of the Chamber String Ensemble study and perform chamber music written for strings. All string players are eligible for participation in this group.

Brass Ensemble. The Brass Ensemble studies and performs music for brass from all historic periods. Members are selected after auditions. This group performs several concerts throughout the year and tours and records periodically.

Wind Ensemble. The Wind Ensemble is a small, selected group of music students who study and perform music for winds and percussion. This group is selected through auditions. The Wind Ensemble records, tours, and presents concerts regularly.

Percussion Ensemble. The Percussion Ensemble is a group of percussion majors and non-music majors who study and perform music written for percussion ensembles of all sizes and instrumentations. This group is selected through auditions. The Percussion Ensemble tours, and presents several concerts throughout the year.

SRU Panorama. The SRU Panorama (Steel Drum Band) is a small ensemble dedicated to performing the music native to the island of Trinidad on their traditional steel pans. The Panorama also performs original compositions and arrangements of music from nearly every genre and era. The group is made of music majors and non-majors and is open to anyone interested in the genre. No previous pan experience is required, but knowledge of music reading is recommended.

Opera. The Department of Music voice program stages at least one full opera every other years in the Spring semester. An audition is required. The group is made up of male and female voice majors from all voice ranges.

Chamber Ensembles. Small ensembles of various instrumentations are offered every semester in the Department of Music. The ensemble sizes and instrumentations vary year to year and are usually auditioned. These groups perform at least one concert on campus each semester.

Saxophone Quartets and Ensemble. The Saxophone Ensemble is a selected group of saxophone majors and non-majors who study and perform music written or arranged specifically for the full range of saxophones. The Saxophone Quartets are similar, but consist of only four saxophones. These groups are selected through auditions. The groups perform concerts regularly on campus and in the community.

Preschool Child Care Center

The SRU/SGA Preschool and Child Care Center is a state licensed, nationally accredited non-profit program managed by the Student Government Association, Inc. of Slippery Rock University. Services are available for children age three to five of students, faculty, staff, and members of the Slippery Rock community. Children through age 12 are welcome for before and after-school care and for summer programs.

The Center is licensed by the Pennsylvania Department of Human Services and Department of Education and is accredited by the National Association for the Education of Young Children. It is a Keystone Stars STAR 4 rated site. The Center is the recipient of the PA Pre-K Counts and Federal CCAMPIS grants which provide free or reduced preschool to children based on financial need. The CCAMPIS grant is only available to the children of University enrolled students. In 2016, the Center was approved as a child care provider for both the Child Care Aware and GSA Subsidy military fee assistance programs. The Center employs one Master's level Director, three Master's level Head Teachers, three Graduate Assistants, and several undergraduate students majoring in education.

The Center is located at 007 McKay Education Building, and is open from 7:00 a.m. to 6:00 p.m., Monday through Friday. Service is provided year round. To contact, please call 724-738-2102.

Publications

SLAB, formerly Ginger Hill, is one of the oldest and distinguished college literary magazines in the country, but it's most notable for being one of the few literary magazines that is entirely edited and run by undergraduate students. Students gain experience producing a high quality magazine, by soliciting contributions of fiction, poetry, art and photography; selecting and editing works for publication; and helping develop the layout, design and typography for printing. Issued annually, SLAB is funded by the Student Government Association.

The Rocket is an independent, student-run newspaper serving Slippery Rock University. Students produce digital content every week and print editions are published monthly during the academic year. The Rocket produces award-winning content covering the campus community and beyond, and it serves as an outlet for student opinion through the editorial and letter-to-the-editor features. The Rocket provides an excellent experience for students whose career goals are in the areas of journalism, advertising, layout, design and general newspaper management.

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Radio and Television

WSRU RADIO - 88.1 FM is a university radio station, which is a student-operated, network serving the campus community. Its format consists of popular contemporary artists, rock and roll, progressive rock, music and concert news, special features and local, national, and international news and sports. WSRU operates at 100 watts serving the Slippery Rock area throughout the academic year and broadcasts from 8 a.m. to midnight when classes are in session.

Television Production Studio - The all-digital Television Studio, a three-camera color facility, was recently relocated to 101 Vincent Science Hall. The newly remodeled facility has a control room, audio production, and the broadcast announcing classes use the facility as a component of the broadcast journalism curriculum. The offices of the student production organization, WSRU-TV, are also located at the facility. This student organization produces news and interview programs for distribution on the campus cable network.

Robert M. Smith Student Center

The mission of the Robert M. Smith Student Center is to serve as a gathering place for the campus community. The services, programs, activities, and opportunities that the Student Center provides are designed to meet the needs of students, faculty, staff, and visitors and foster a sense of community and campus loyalty. Through their involvement with the Student Center, students develop skills in leadership, citizenship, diversity awareness, and professionalism. In addition to various lounges and meeting spaces, the following offices and services are located in the Robert M. Smith Student Center: Student Center Operations, Dining Services, Conference Services, PNC Bank, Electronic Technology Center, Starbucks, SGA Bookstore, Rocky's Food Court, Quaker Steak & Lube, and the Student Development Suite including Student Engagement & Leadership, Inclusive Excellence, Women's Center, Student Success, Cooperative

Activities, Student Government Association, University Program Board, Pride Center, Veteran's Lounge and other student organization offices. For additional information, stop by the Student Center Information Desk or call 724-738-4926.

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Student Conduct

Slippery Rock University is an academic community in which there is mutual respect and trust of the persons who learn, teach, and work within it. Students of Slippery Rock University are entitled to certain rights and privileges which must be protected through fair and orderly processes and which are best safeguarded when each student acts responsibly. All students of the university community are equally entitled to the protection of the code of conduct. Students are expected to be familiar with the provisions of the Student Code of Conduct which is available at www.sru.edu/studentconduct.

Student Counseling Center

724-738-2034
118 Rhoads Hall

Student Counseling Center

In line with the Slippery Rock University diversity statement, the SRU Student Counseling Center aims to provide counseling services inclusively to a diverse range of students. Diversity is defined broadly to include all students that may require counseling services. Faculty and trainees are committed to all students including those from underrepresented groups and seek professional development that enhances their training to work with all student populations.

In order to enhance the lives of individuals in our diverse communities, the Department of Counseling & Development prepares competent, reflective and ethical helping professionals and provides responsive and effective counseling and development services through the University Counseling Center.

The Counseling Center service aims to:

- Provide counseling to students through developmental processes, social adjustment, academic preparedness and psychological challenges and opportunities they face during their decisive college years.
- Maintain a safe, confidential, non-judgmental environment for all students.
- Provide short-term counseling, implement programming on issues relevant to students to enhance their personal growth, assist during crisis situations, and serves as a resource for referral to both on-campus and community support services.
- Promote wellness through direct service, programming, training, and consultation to the Slippery Rock University community.

Counseling is a collaborative learning experience between the counselor and the student. Counseling encourages the student to utilize the processes of self-exploration and problem solving to identify their strengths and challenges and set realistic goals. Through the process of counseling students may increase their knowledge and understanding of themselves, their relationships with others and their environment. Psychologists, professional counselors, a Psychiatrist, a professional addictions counselor and interns are available to meet with students in the Student Counseling Center, located in Rhoads Hall. When students require mental health services that are beyond the scope and practice of the Student Counseling Center, appropriate referrals to off-campus and community resources will be made. All services are free to enrolled undergraduate and graduate students. All information is confidential.

Office For Student Engagement & Leadership

The Office for Student Engagement and Leadership, located in the Student Center, serves as the premier outlet for students to learn about and explore opportunities to connect with peers and engage in co-curricular and leadership experiences at SRU. Their mission is to enhance the overall educational experience, through co-curricular programs, services, and involvement opportunities that transform the intellectual, social, physical, and leadership capacities of students. The Office oversees the following involvement areas: student organizations, fraternity and sorority life, leadership programs, First-Year Leader Scholar Program (FLSP), Student Government Association (SGA), University Program Board (UPB), Homecoming, and CORE, the University's online student engagement platform. To learn more about the various involvement areas and what's happening on campus, log into CORE at www.sru.edu/core, using your SRU username and password. For more information regarding the Office for Student Engagement and Leadership contact 724-738-2092 or leadership@sru.edu.

CORE

CORE is the University's online student engagement platform, and the ultimate way to Connect, Organize, Reflect, and Engage in leadership and involvement opportunities at SRU. Students can explore hundreds of ways to get involved at SRU. Students can learn about student organizations, find volunteer experiences, and discover leadership opportunities. They can also stay up-to-date with the latest happenings on campus through the Events Calendar and personal new feed. CORE also provides features for students to organize and manage their own involvement through a co-curricular transcript. Log into CORE at www.sru.edu/core, using your SRU username and password or contact the Office for Student Engagement and Leadership at 724-738-2092 or leadership@sru.edu for more information.

FIRST-YEAR LEADER SCHOLAR PROGRAM

The First Year Leader Scholar Program (FLSP) is an opportunity for first year students to jump start their involvement by providing a series of workshops, and experiences that improve the participants' leadership skills and increase their visibility as emerging student-leaders on campus. Students in FLSP will meet with 20-25 other first-year students in weekly cohort meetings facilitated by FLSP Peer Mentors. The Peer Mentors are undergraduate students at SRU who have previously graduated from FLSP and are now pursuing the next level of leadership to develop future leaders on campus. Activities are structured to be interesting and fun. Applications are accepted from first-year students each September. Successful applicants begin the program in October and continue with program activities through April of their first academic year. To learn more about FLSP, log into CORE at www.sru.edu/core, using your SRU username and password or contact the Office for Student Engagement and Leadership at 724-738-2092 or leadership@sru.edu.

FRATERNITIES AND SORORITIES

Slippery Rock University's national fraternities and sororities provide opportunities for personal and professional development, civic engagement, networking, leadership development, and academic enhancement. The Fraternity and Sorority Community at Slippery Rock University has played an active role on the campus since 1961, and continue provide numerous opportunities that enhance the SRU experience.

To learn more about the currently recognized fraternities and sororities listed below, log into CORE at www.sru.edu/core, using your SRU username and password or contact the Office for Student Engagement and Leadership at 724-738-2092 or leadership@sru.edu.

North American Interfraternity Conference (NIC) Fraternities

- Alpha Sigma Phi

- Kappa Delta Rho
- Kappa Sigma
- Pi Kappa Alpha
- Phi Kappa Phi
- Sigma Tau Gamma
- Theta Chi
- Theta Xi

National Panhellenic Conference (NPC) Sororities

- Alpha Xi Delta
- Alpha Omicron Pi
- Alpha Sigma Tau
- Delta Zeta
- Sigma Sigma Sigma
- Phi Sigma Sigma

National Pan-Hellenic Council (NPHC) Fraternities and Sororities

- Kappa Alpha Psi Fraternity, Inc.
- Zeta Phi Beta Sorority, Inc.

HOMECOMING

Slippery Rock University Homecoming is one of the oldest campus traditions and is a celebration of the University community, including students, alumni, family, and friends. The student Homecoming experience is led by a steering committee of undergraduate students who are responsible for coordinating and implementing a week-long series of events and activities. Festivities include Spirit Board and Window Painting competitions, Homecoming King and Queen, Pep Rally, Fireworks, Parade, Tailgate Festival, Football Game, and more!

To learn more about all that Homecoming has to offer or how to get involved with the Homecoming Steering Committee, contact the Office for Student Engagement and Leadership at 724-738-2092 or leadership@sru.edu or log into CORE at www.sru.edu/core, using your SRU username and password.

STUDENT GOVERNMENT ASSOCIATION

The main goal of the SGA is to advocate for, represent, and support the students of Slippery Rock University to enhance the student experience. All students, by virtue of their undergraduate registration and payment of fees, are members of the Student Government Association (SGA).

The Student Senate is the central representative and legislative organization of SGA. The Student Senate recommends to the university the recognition of student organizations, allocation of the General Service (Activities) Fee money, and carries out other responsibilities as included in the SGA constitution. The SGA Senate is the main link between the student body and University Administration. All Senate meetings are open to the public.

To learn more about the SGA visit www.srsga.org or log into CORE at www.sru.edu/core, using your SRU username and password.

STUDENT ORGANIZATIONS

SRU offers over 200 recognized student organizations empowering students to explore a wide variety of involvement opportunities revolving around advocacy, governance, media, marketing culture, religion, service, arts, sports, and

more. Student organizations serve to enhance your education and offer a forum for leadership development, critical reflection, and civic engagement. Students who are involved in a student organization enhance their experience by meeting new people, developing leadership skills, pursuing their passions, gaining valuable knowledge, and contributing to the Slippery Rock University community and beyond. To learn more about the various organizations available at SRU, log into CORE at www.sru.edu/core, using your SRU username and password or contact the Office for Student Engagement and Leadership at 724-738-2092 or leadership@sru.edu.

UNIVERSITY PROGRAM BOARD

The University Program Board (UPB) is a student-run organization that brings a variety of entertainment and educational programs to campus. It is the major source for campus events and activities. UPB consists of five specialized committees and an executive position, all occupied by students, who provide variety of entertainment programming for the campus community. The five committees are: Concerts and Comedians, University Events, Special Events, Speakers, and Marketing. Most events are free of charge for SRU students. All students are encouraged to become a part of this exciting organization and help create campus entertainment. To learn more about the UPB visit www.srupb.com/, or log into CORE at www.sru.edu/core, using your SRU username and password.

ACADEMIC HONOR SOCIETIES

Slippery Rock University offers a number of academic and professional honor societies that recognize students who excel academically or in their leadership within specific disciplines. To learn more about the currently recognized honors societies listed below, log into CORE at www.sru.edu/core, using your SRU username and password or contact the Office for Student Engagement and Leadership at 724-738-2092 or leadership@sru.edu.

Anthropology/Sociology Honorary is an academic group for students with an emphasis/minor in sociology or anthropology that promotes excellence and engagement in social/intellectual activities.

Beta Beta Beta is an honorary for students interested in the biological sciences. The purpose of the organization is to promote scholarship in the biological sciences, to further the dissemination of biological knowledge, and to encourage research. Tri Beta provides service and learning opportunities outside of the classroom for students to further their learning in the field of biology.

Kappa Delta Pi fosters excellence in education and promotes fellowship among those dedicated to teaching. The organization recognizes education majors who are either in or entering into their sophomore year at SRU.

Lambda Sigma honors sophomore students who have enriched campus life. The honorary is dedicated to the ideals of scholarship, leadership, fellowship, and service. Active members are chosen according to an election system approved by the national board and are initiated in the spring.

Mu Phi Epsilon is an international, professional music fraternity whose purpose is scholarship, musicianship and the promotion of friendship. The fraternity is open to music majors who have a minimum GPA of 2.500 with a minimum GPA of 3.000 in music subjects. Members serve the department by ushering, sponsoring concerts, and participating in community outreach programs.

National Honor Society for Dance Arts a program of the National Dance Education Organization, created to recognize outstanding artistic merit, leadership, and academic achievement in students studying dance.

Order of Omega recognizes fraternity and sorority members who have attained a high standard of leadership and academic achievement. It strives for excellence by bringing together the most representative fraternity and sorority members with faculty, staff and alumni of the institution.

Phi Alpha Theta is dedicated to promotion of research, instruction, publication, and exchange of experiences among historians. Students maintaining high academic standards in history and general studies are eligible to become members. The RHO IOTA Slippery Rock Chapter has been selected best chapter in Division III for 1989-90 and 1990-91 school years.

Phi Kappa Phi, the nation's oldest and most selective all-discipline collegiate honor society, extended an invitation of membership to Slippery Rock University following a yearlong evaluation. SRU initiated a chapter in the fall of 2004. Founded in 1897, the Phi Kappa Phi society stresses academic excellence and strength of character. Membership in the society is by invitation. Invitations are extended to the top 7.5% of juniors and the top 10% of seniors, as well as outstanding members of the university's faculty, staff and administration.

Phi Sigma Pi is a national, coeducational honor society for all majors. Slippery rock University's Mu chapter was established in 1930, on the three ideals of scholarship, leadership, and fellowship. With this tripod the society strives to make all three ideals dynamic in the lives of its members. Consideration for membership requires the maintenance of a 3.000 GPA, and completion of twelve credits.

Pi Sigma Alpha is an upper division, specialized honor society for undergraduate and graduate students currently enrolled in programs of political science. Students must have completed half of the credits required towards their baccalaureate degree and hold a GPA in the top-third of their academic class.

Sigma Gamma Epsilon recognizes scholarship and professionalism in the Earth Sciences. It has for its objectives the scholastic, scientific, and professional advancement of its members and the extension of relations of friendship. Eligible students have completed at least 10 semester hours or 15 quarter hours in Earth Science courses and has maintained a minimum 3.0 GPA.

Sigma Tau Delta is an International English Honor Society, recognizing high achievement in English language and literature in undergraduate, graduate, and professional studies. Candidates for **membership** must have completed a minimum of two college courses in English language or literature beyond the usual requirements in freshman English, a minimum of a B or equivalent average in English and in general scholarship, must rank at least in the highest thirty-five percent of his/her class, and must have completed at least three semesters.

Theatre Productions

The Department of Theatre sponsors an active co-curricular program, and encourages students from across the university community to participate in productions. Each year, it presents a season of faculty-directed productions: a balance of Broadway hits, new plays, and classics of the world theatre. An additional lab theatre space allows students to direct and produce their own work as well.

Participation in the program is open to any interested student and is not confined to theatre majors. Auditions for productions are held throughout the academic year.

Admission

Students are admitted to Slippery Rock University of Pennsylvania for the fall semester, spring semester, or a summer term. The university calendar should be consulted for specific starting dates. Applicants are considered for admission on a rolling basis. Criteria and deadlines used to determine admission to the university are defined by an applicant's admission category. Admission to the university may be subject to space availability and criteria used for admission to the university are subject to change.

Click on a link to be taken to the entry below.

- First-year Applicants
 - Admission Guidelines for New First-year students
 - How to Apply for Admission as a New First-year students
 - First-year student Residence Requirement
- Transfer Policies
 - What is the 30-Credit Transfer Framework?
 - What is Academic Passport?

- Post Baccalaureate
- Special Student Adm
- Transient Students
- Visiting Students
- Faxed Transcripts/D
- Student Right-to-Kr
- International Studer

First-year Applicants

Any high school graduate (or anyone who will be a high school graduate prior to attendance) or anyone who has passed the General Educational Development test (GED) who has not yet enrolled at a college, university, or other post secondary educational institution and intends to enroll at Slippery Rock University to pursue a degree granting program shall apply for admission as a new first-year student. Students who enroll in dual-enrollment college credit programs prior to high school graduation are still considered new first-year students.

Admission Guidelines for New First-year Students

New first-year students are admitted to Slippery Rock University on a rolling basis for all terms. Admission criteria used to evaluate an applicant usually include the student's previous academic record and standardized test scores. Admission guidelines are based upon the academic profiles of previously successful students. First-time, full-time students (new first-year students) who succeed most often at Slippery Rock possess a cumulative grade point average of 3.0 on a 4.0 scale in high school as well as SAT or ACT scores that are above average at the time of admission. Other students who apply may be asked to supply additional information and may be considered for admission on an individual basis using a Waitlist process. Additional admission criteria for applicants on the Waitlist may include: high school course rigor, grade trends, grades in core college preparatory courses and class rank (if available). Waitlisted applicants are offered admission on a rolling, space available basis and applicants closest to the academic and standardized test admission guidelines are offered admission most frequently.

Slippery Rock University recommends that entering first-year students complete a college preparatory curriculum in high school consisting of four years of English; three years of social studies (with a fourth year recommended); three years of science with two years laboratory science; three years of mathematics (with a fourth year recommended, including algebra one, algebra two and geometry). Two years of a foreign language in the same language is preferred but not required.

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How to Apply for Admission as a New First-year Student

Applicants need to supply the following credentials to apply for admission:

- A completed Application for Admission (admission applications are available through the Office of Undergraduate Admissions and via the web at www.sru.edu)
- A \$ 30.00 application fee (non-refundable)
- Official high school transcripts or GED, and senior year (12th Grade) class schedule if enrolled in high school
- Official Composite Test Scores from the SAT or ACT

Official transcripts are those that either 1) are sent directly from the school to Slippery Rock University's Office of Undergraduate Admissions, or 2) are delivered to Slippery Rock University's Office of Undergraduate Admissions in a sealed envelope from the school. No other transcripts will be considered official. Transcripts should reflect all grades

up through the end of the junior year (six completed semesters). Final official high school transcripts documenting graduation from high school will be required upon graduation prior to the start of the initial semester of enrollment. Failure to document high school graduation will result in the revocation of admission.

Slippery Rock University recommends that official transcripts include a student's complete curricular and grading history, semester and cumulative grade/quality point averages (both weighted and un-weighted if weighting is practiced), and class rank if calculated. If the high school uses a percentage grading scale, any conversion guide to a 4.0 scale is also recommended. Home schooled students should supply transcripts of home school curriculum as well as any previous high school transcripts if applicable.

If an applicant is submitting a GED rather than a high school diploma, the GED documentation must be a copy of the diploma and include the official test results.

Slippery Rock University accepts either the SAT or ACT for the purposes of an admission decision, first-year student course scheduling, as well as Honors Program and Freshmen scholarship consideration. SAT or ACT scores are required for admission consideration for current high school students, home schooled students, or students who graduated from high school less than 2 years ago. Adult students who graduated from high school more than two years ago are not required to submit standardized test scores. Official SAT or ACT scores are results that arrive at the Slippery Rock University Office of Undergraduate Admissions either 1) electronically directly from the testing agency, 2) directly from the high school records office, or 3) delivered on hard copy to the Slippery Rock University Office of Undergraduate Admissions directly from the testing agency. Slippery Rock University does not require ACT or SAT subject tests for admission or scholarship purposes. Only ACT and SAT composite scores are used for admission and scholarship consideration.

Credentials should be directed to the Office of Undergraduate Admissions at Slippery Rock University. Once all credentials are received, Slippery Rock University admits new first-year students on a rolling basis for all terms. Applicants who are offered admission must reply to Slippery Rock University to accept their offers of admission, along with submitting a required enrollment deposit, before they are considered matriculated. Admission offers not acted upon by making an enrollment deposit, are subject to rescission after May 1 of the students senior year of high school. New first-year students seeking admission for the fall semester are encouraged to apply early in the preceding fall prior to enrollment.

First-year admission is valid for the term it is offered, or any subsequent term for not later than one academic year, as long as a student does not enroll in college courses at another college/university. Students who enroll in college courses elsewhere must reapply for admission as a transfer student for the semester they wish to enroll in. Students wishing to defer admission should contact the Office of Undergraduate Admissions.

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First-year Residence Requirement

All new first-year students are required to live on campus. First-year students living with their parents or legal guardian within a reasonable commuting distance may request a release from this requirement in order to commute from home. The Residence Life Housing Appeals Board will review all written requests for this exception.

Transfer Policies

- In accordance with the recommendation of the Middle States Commission on Higher Education, Slippery Rock University of Pennsylvania strives to transfer college credit in a student-centered, fair, consistent, flexible manner, while maintaining the academic integrity of the university and its curricula.

- The acceptance or denial of transfer credit is not determined exclusively based on the accreditation of the sending institution or the mode of delivery, however, national or regional accreditation at the higher education level is expected of the transfer institution.
- Courses, programs, and occupational experiences for Military-related learning are evaluated based on their learning outcomes, using valid evaluation measures, including the recommendations of ACE, the American Council on Education, a third-party review conducted by appropriately qualified reviewers and their recommendations.
- SRU does not limit the number of credits a student may transfer to the University; however, students must complete all *Graduation Requirements*.
- SRU will consider all non-developmental transfer credits for which a letter grade of "C" or greater was earned.
- For students who have earned an associate degree from a Pennsylvania community college, SRU will consider all non-developmental transfer credits for which a letter grade of "D" or greater was earned.
- For students who have attended another Pennsylvania State System of Higher Education university, SRU will consider all non-developmental transfer credits for which a letter grade of "D" was earned, if the student has earned a QPA of 2.0 or higher at all institutions he/she has attended.
- SRU converts Quarter Hour credits to Semester Hour credits by multiplying the Quarter Hours by .666. Resulting credit hours valued as a fraction or percentage, 2.33, 2.5, etc., may be used to meet requirements. However, students must still earn a total of 45 credits of Liberal Studies Requirements, to meet Graduation Requirements.

All questions and appeals regarding the transfer of credits to Slippery Rock University of Pennsylvania should be directed to the Transfer Admissions area of the Office of Undergraduate Admissions. There, questions are reviewed by the University's official credit evaluators and, if needed, are reviewed in consult with the chairperson of the academic department associated with the course. If a course syllabus is needed to further investigate the student's appeal, it is the responsibility of the student to provide this information. The Office of Undergraduate Admissions strives to respond to the student with a final determination within 10-14 days of receipt of the appeal/receipt of the syllabus.

What is the 30-Credit Transfer Framework?

As a participating member of the *Pennsylvania Transfer and Articulation Center* (PATRAC.org), SRU actively strives to transfer and use towards graduation requirements, those courses completed in accordance with the **30-Credit Transfer Framework**.

What is Academic Passport?

The Academic Passport is a transfer program designed to facilitate the transfer of students of Pennsylvania community colleges to Pennsylvania State System of Higher Education (PASSHE) universities, and to support the transfer of undergraduate credits earned by PASSHE students to other PASSHE universities. Students who meet the established criteria will be granted an *Academic Passport*, which will guarantee admission to the university and the fullest consideration of transfer credits.

Academic Passport Criteria and Privileges

Students transferring with an Associate Degree:

- Students who have earned a Pennsylvania community college Associate in Arts (AA) or and Associate in Science (AS) degree, which has a liberal arts/science component of a minimum of 30 credits, will be granted an *Academic Passport* and will be guaranteed admission to the university if the student has earned a

minimum QPA of 2.0 from *all* institutions attended. The student must apply for admissions in accordance with the established university policy on admission.

- Guaranteed admission to the university through *Academic Passport* does not necessarily guarantee admission to specific academic programs. Some academic majors may require higher admission standards than the *Academic Passport* requirement.
- For those students holding the appropriate associate degree, the letter grades of "D" or above are acceptable to the university. Some academic majors may require that the letter grade of "C" or above be earned for specific course-work.
- *Academic Passport* students must meet all of the established program admission standards required of indigenous students.
- In the acceptance and application of transfer credits for students holding an *Academic Passport*, the university will strive to apply all credits earned at the community college towards the completion of the baccalaureate degree. In certain circumstances, such as a change in major or intended program of study, it may not be possible to apply all credits earned at the community college.

Students Transferring From Other Pennsylvania State System (PASSHE) Universities:

- Students transferring from other PASSHE universities who have attained a 2.0 QPA or higher in a minimum of 12 credit hours of college level course-work and hold a minimum 2.0 QPA from *all* institutions attended hold an *Academic Passport* and are guaranteed admission to the university. The student must apply for admissions in accordance with the established university policy on admission.
- Guaranteed admission to the university through *Academic Passport* does not necessarily guarantee admission to specific academic programs. Some academic majors may require higher admission standards than the *Academic Passport* requirement.
- For those students holding the *Academic Passport*, the letter grades of "D" or above are acceptable to the university. Some academic majors may require that the letter grade of "C" or above be earned for specific course-work.

Post-Baccalaureate Students

Students who have earned a baccalaureate or higher degree from an approved institution may qualify for admission to earn additional undergraduate credit beyond their degree (see same title in College of Education).

Students interested in post-baccalaureate study may take course work for self-enrichment, may earn a second degree, a letter of completion or an academic certificate. Students pursuing an additional degree must earn a minimum of 30 credits at SRU beyond their first baccalaureate degree and meet all department requirements for the degree.

Post-baccalaureate students may not enroll at SRU to add a second major, minor, or other academic credentials to their undergraduate degree without meeting all requirements for a second degree.

Post-baccalaureate students interested in learning more about curriculum and degree requirements should contact the related academic department at the university. Questions regarding the actual application process should be directed to the Office of Undergraduate Admissions.

Admission Guidelines for Post-Baccalaureate students seeking a second degree or teacher certification

A baccalaureate degree awarded from a regionally accredited institution of higher education is required. Certain programs, such as teacher certification and nursing programs, may require applicants to meet additional or more stringent admission criteria, including minimum Grade Point Average requirements. Interested applicants should contact those college or department offices for admission guideline information prior to applying for admission. Post-Baccalaureate students seeking to earn a second degree and/or teacher certification may be eligible for financial aid, and should contact the Financial Aid Office for further information.

How to apply for admission as a Post Baccalaureate student seeking a second degree or teacher certification

The application process for the various categories of post-baccalaureate study varies. For additional information regarding the appropriate application process, refer to the Post-Baccalaureate Students link on the admission page.

Non-Degree Student Admission

A non-degree student is a student who does not possess a baccalaureate degree and wishes to enroll for undergraduate level credit coursework at Slippery Rock University for enrichment and does not intend to use the course work toward a degree program at an institution of higher education. Non-degree admission is valid for one semester at a time. Students who wish to enroll as non-degree students may reapply for admission for subsequent terms until a maximum of 30 semester hours have been completed, at which time further enrollment is precluded in the non-degree status. Non-degree students are not eligible for financial aid.

Admission Guidelines for Non-Degree Student Admission

A non-degree student must be a high school graduate or have a GED to enroll. Non-degree student applicants sign a statement on the application for admission to that extent and have one semester of attendance to supply proof of high school graduation (generally either a high school transcript or GED). The Slippery Rock University Fast Track Program also offers admission as non-degree students to qualified high school students seeking to enroll at the University prior to high school graduation. Students interested in the Fast Track program should contact the Office of Undergraduate Admissions directly for more information, and to schedule a meeting to discuss the Fast Track application process.

How to apply for Admission as a Non-Degree Student

Applicants need to supply the following credentials to apply for admission:

- A completed Non-Degree Application for Admission
- Non-Degree student applicants do not pay an application fee
- Official high school transcripts with a graduation date posted (or GED) are required during the term of enrollment. Other credentials may be appropriate for special Slippery Rock University programs. Other transcripts may be required to meet specific course prerequisites.

Non-degree students must enroll and make payment by registration and fee payment deadlines as published in the class schedule for the term in which they wish to enroll.

Transient Students

Any current undergraduate student from another regionally accredited institution of higher education who wishes to enroll for one semester at Slippery Rock University for credit course work while pursuing a degree program at their home college or university may apply for admission as a transient student. Transient students enroll for one term at Slippery Rock with the intent of returning to their home institution to pursue their degree. Only credits, not grades, return to the home institution. If you are attending one of the PASSHE institutions, and wish to transfer grades **and** credits back to the home institution, you should apply as Visiting Student status.

How to apply for Admission as a Transient Student

To apply for Transient Student admission, complete the online application and submit a copy (unofficial or official) of the transcript from the most recently attended college or university to the Office of Undergraduate Admissions; no application fee required.

Transient students must enroll and make payment by registration and fee payment deadlines as published in the Class Schedule for the term in which they wish to enroll.

Transient students are admitted through the Office of Undergraduate Admissions for all enrollment terms.

Visiting Students

Any current undergraduate student from one of the other 13 member universities of the Pennsylvania State System of Higher Education who wishes to enroll for one semester at Slippery Rock University for credit course work while pursuing a degree program at their home college or university may apply for admission as a visiting student rather than a transient student. Visiting students enroll for one semester at Slippery Rock University with the intent of returning to their home institution to pursue their degree. Eligible students should contact the registrar or academic records office at their home institution to review visiting student grading policies prior to enrolling as a visiting student at Slippery Rock.

How to apply for Admission as a Visiting Student

Applicants need to supply the following credentials to apply for admission:

- A completed Visiting Student Application for Admission

Visiting students must enroll and make payment by registration and fee payment deadlines as published in the Class Schedule for the term in which they wish to enroll.

Visiting students are admitted and processed through the Office of Academic Records and Registration.

Faxed Transcripts/Documents

Transcripts and documents faxed to Slippery Rock University on behalf of students may be used unofficially for the purpose of initial review or for use with non-degree seeking student applicants. No final decision will be made pertaining to acceptance to the university or acceptance of transfer credit until the university receives the official transcripts. Faxed copies of GED certificates and Green Cards are acceptable. If ACT/SAT must be submitted via fax, score reports must be sent from a student's high school in order for them to be accepted.

Note: All credentials submitted to Slippery Rock University become the property of Slippery Rock University and will not be returned to the student or forwarded to third parties.

Student Right-to-Know and the Clery Act

Notification of Availability of Student Consumer Information including:

- Clery Act
- Annual Security Report
- Freshman and scholarship athlete graduation rates
- Students' Rights of Privacy (FERPA)
- Student Financial Assistance
- Costs of Attending SRU
- Facilities
- Health and Safety Information
- Other information of importance to students

Slippery Rock University's Annual Security Report includes statistics for the previous three years concerning reported crimes that occurred on campus, in certain off-campus buildings or property owned or controlled by Slippery Rock University; and on public property within, or immediately adjacent to and accessible from the campus. The report also includes institutional policies concerning campus security, such as policies concerning alcohol and drug use, crime prevention, the reporting of crimes, sexual assault, and other matters.

View the **Annual Security Report** or contact the Office of University Police at 724-738-3333.

View the **Student Consumer Website** or contact the Office of Academic Records and Registration at 724-738-2010.

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International Students

Slippery Rock University actively seeks international students to provide diversity to its student population. Diversity expands the cultural awareness of students and others. The number of students admitted from individual countries may be limited to ensure a balanced representation of cultures. To be considered for admission, the following credentials must be submitted to the Office for Global Engagement:

- Completed application for admission for international students.
- Official certified true copies in English of all secondary and post-secondary school transcripts that show year-by-year listing of courses, grades earned for each course, and credits earned for each course.
- Official certified true copies in English of all secondary and post-secondary school certificates, diplomas, degrees, and examination results.
- Proof of English language proficiency. This usually is determined by a score of 61 (internet test) or 500 (paper test) or better on the Test of English as a Foreign Language (TOEFL) or by proficiency at the 112 level or better from one of the ELS (English Language Schools) language centers in the United States, or by proficiency at the 6.0 band or above on the International English Language Testing Service (IELTS).
- Verification of applicant's ability to meet educational costs. Financial status is not used to determine academic qualification for admission to the university but must be verified to satisfy the U.S. Immigration and Naturalization Service requirements.

The deadline for submission of all application and supporting credentials is May 1 for fall admission and October 1 for spring admission. New international students are not admitted for summer terms. All applicants are considered automatically for financial aid.

For an application packet or further information, please contact the Office of Global Engagement.

Contact Information

Whom to Contact at Slippery Rock About...

Academic Records and Transcripts -Office of Academic Records & Registration 724-738-2010

Academic Services (FIRST Year Studies (FYRST) Program) 724-738-2012

Academic Services (Readmission undergraduate) 724-738-2012

Admissions (First-Year Students) 724-738-2015

Admissions (Graduate) - Office of Graduate Admissions 724-738-2051

Admissions (International undergraduate) - Office for Global Engagement 724-738-2057

Admissions (Transfer undergraduate) 724-738-2015

Alumni - Office of Alumni Affairs 724-738-2018

Athletics - Office of Intercollegiate Athletics 724-738-2021

Campus Tours - Office of Admissions 724-738-2015

Career Education and Development 724-738-2028

College of Business 724-738-2008

College of Education 724-738-2007

College of Health, Environment and Science 724-738-4862

College of Liberal Arts 724-738-4863

Counseling - Student Counseling Center 724-738-2034

Diversity and Equal Opportunity 724-738-2016

Financial Aid - Office of Financial Aid 724-738-2044

Health Center - Health Services 724-738-2052

Honors Program 724-738-4003

Help Desk/IATS 724-738-4357

International Student Information - Office of Global Engagement 724-738-2057

Inclusive Excellence 724-738-2700

Orientation - Office of Orientation 724-738-2067

Registration - Office of Academic Records & Registration 724-738-2010

Residence Halls - Office of Housing and Residence Life 724-738-2082

Scholarships - Office of Financial Aid 724-738-2044

Student Activities/Organizations/Services/Student Life -
Office for Student Engagement and Leadership 724-738-2092

Student Employment - Office of Career Education & Development 724-738-2028

Study Abroad - Office of Global Engagement 724-738-2057

Tuition and Fees/Billing/Payment - Office of Student Accounts 724-738-2088

All communications should be directed to the proper university office at:
Slippery Rock University of Pennsylvania, Slippery Rock, PA 16057

Departments

Academic Services

009 and 106 Bailey Library
724-738-2012
724-738-2009

Chair

Mark Campbell

Secretary

Jennifer Stroup

Faculty

Cathy Brinjak, Mark Campbell, Annette Salsovic

Accounting, Economics & Finance

Accounting, Economics and Finance

Bachelor of Science in Business Administration – BSBA, with majors in Accounting, Economics and Finance

Master of Accountancy - MAcc

Office: 110 Eisenberg Classroom Building

Phone: 724-738-4865

Email: michele.orr@sru.edu

Department Chair

Melanie Anderson

Department Secretary

Michele Orr

Faculty

Melanie Anderson, Thuy Bui, Jeffrey Forrest, Benjamas Jirasakuldech, Yi Li, Larry McCarthy, Sunita Mondal, Theresa Phipps, Edward Scott, Pavani Tallapally, Jesus Valencia, Xintong Wang

The Department of Accounting, Economics and Finance offers a Bachelor of Science in Business Administration (BSBA) with majors in Accounting, Economics and Finance.

The Department offers a Master of Accountancy (MAcc) degree. Students can complete this graduate degree in one year, or can select the 4 + 1 option as an accounting undergraduate to complete the BSBA/MAcc in 5 years.

Our Vision

We will provide transformational education experiences that equip students to be lifelong learners who engage the world as knowledgeable, principle centered and responsible global citizens.

Our Mission

The School of Business at Slippery Rock University prepares students to be career ready emerging leaders by developing competencies for success professionally and personally. Our academic programs are student centered with high levels of engagement in an environment where faculty scholarship enhances student learning. The School of Business also serves as a catalyst for regional economic development through outreach and partnerships.

Accreditation

The BSBA program is accredited by the Accreditation Council for Business Schools and Programs - ACBSP and is a candidate for the Association to Advance Collegiate Schools of Business - AACSB accreditation.

Art

Art Building I

724-738-2020

Art

Students who major in art will develop the capacity to make tangible their aesthetic responses to experience. By increasing awareness of themselves, their environment and their culture, and by learning to think and act creatively, students prepare themselves for a life enriched through art. The broadly based Bachelor of Arts program with a concentration in art provides a diversified background suitable to generalist applications and an excellent foundation for further study in various disciplines. The Bachelor of Fine Arts degree program is for students interested in art as a profession. It is an intensive program of study aimed at developing a foundation of attitudes, traits and abilities with which to begin a lifetime as an artist. Emphasis is placed on students' personal experiences as the source of artistic motivation. The broadly based liberal studies curriculum provides students with a diversified background, which, in concert with their professional training, should lead to a successful career in art and applied vocations.

Chair

Jon Shumway

Secretary

Christine Byrd

Faculty

Tricia Bishop, Pierre Bowins, Thomas Como, Heather Hertel, Sean Macmillan, Katherine Mickle, Kurt Pitluga, Jon Shumway, Barbara Westman

"The encouragement and support I received from the faculty and students in the Art Department at Slippery Rock University enabled me to gain the confidence to make it as a professional artist. The instruction I received provided both a practical and philosophic foundation that continues to contribute to my success as artist and teacher."

John Greco
BA '76
Professor of Art
Santa Monica College

"Being creative and skilled are the keys to surviving in today's fast paced environment. The experience in the Art Department at Slippery Rock University prepared me to succeed in graduate school and in my professional career where constant change challenges all assumptions."

Dalton Good
BFA '81
Director of Publications
Point Park College

The Art Department sponsors regional and national travel opportunities to visit galleries and museums in cities such as Boston, Philadelphia, Toronto, New York, Washington, D.C. or Chicago each semester. Faculty organize day trips to exhibits in Cleveland and Pittsburgh several times each term. The department has developed exchange programs with excellent art schools in Europe and Costa Rica to provide students with the opportunity for an international experience. Students have the opportunity to spend a semester studying and traveling in Europe or Costa Rica, experiencing different cultures. More than 100 students have participated in these exchanges.

Art faculty periodically take students to various professional society meetings such as the National Society for Education in Ceramic Arts, International Sculpture Society and Southern Graphics Society annual meetings. At these meetings students meet and get to know professionals in their field. They have an opportunity to attend lectures and demonstrations on the latest techniques being developed.

Each term, in our master studio program, the Art Department has visiting artists come to campus for workshops, lectures and critiques of student work. This program enables the student to know and experience the broadest possibilities in their own work.

Each year, the final exhibition in the campus gallery is devoted to an exhibit of student art. For this show, an invited juror judges the show, awarding prizes and scholarships for the coming year.

Students may elect to do an internship in their junior or senior year. Internships allow the student to sharpen skills learned in the classroom in a professional, working atmosphere. Students complete internships in various museums and galleries, and in photography, architectural, ceramic and graphic design studios. While interning, students gain a working knowledge in their chosen field, make contacts with professional artists, and learn to use the ideas and techniques practiced in the classroom.

The Art Society, a student run Art organization, coordinates field trips to special art exhibitions, raises monies for entry fees to local art exhibitions and sponsors exhibitions of their work to show in local galleries.

Asian Studies

Asian Studies

Coordinator

Sunita Peacock, SWC 317-I, (724) 738-2354, sunita.peacock@sru.edu

Faculty

Wei Bian, George Brown, Aksel Casson, Xianfeng Chen, Andrew Colvi, Margaret Denning, Richard Findler, Yukako Ishimaru, J. Sunita Peacock, Armand Policicchio, Pragati Rawat, Jialing Wang, and visiting professors from China, India, Japan, and Korea.

The Asian Studies Minor and Program at Slippery Rock University offers students the opportunity to learn about Asian cultures, history, geography, politics and languages, and supports study abroad programs in China, Japan, Korea, and India. The Asian Studies Program is an interdisciplinary program that includes courses and faculty from several disciplines, including Asian Studies, Modern Languages and Cultures (Chinese and Japanese), History, Geography, Political Science, English, Philosophy and Anthropology (Interdisciplinary Programs). The Asian Studies Program seeks to prepare students to understand a region that includes some of the oldest civilizations on our planet, the world's second and third largest economies (Japan and China), and 60% percent of the global population. For more information go to Asian Studies Program.

Biology

Biology

Office: 300 Vincent Science Center
Phone: 724-738-2023

Chair

Nicole Dafoe

Secretary

Melissa Barber

Faculty

Simon Beeching, Jennifer Belavic, Megan Borger, Martin Buckley, Nicole Dafoe, Dean DeNicola, Miranda Falso, Paul Falso, Wayne Forbes, Heather Fritz, Diane Frndak, Jamie Hammond, Jacob Hovis, Stacy Hrizo, Audra Kessler, Dave Kravesky, Jack Layne, Jeffrey Loveland, Christopher Maltman, Barbara Ragnelli, Susan Rehorek, Kenneth Reichl, Mark Shotwell, Justin Siebert, William Sigmund, Elise Somers, Steven Strain, Amanda Tishko, Lynn Williams

The fundamental mission of the department of Biology is to provide students with a comprehensive, contemporary understanding of the biological sciences by offering experiences that are stimulating and challenging. Our courses include both lecture and hands-on, experiential laboratory components. The goal of our collective efforts is to foster an appreciation for the complexities of living systems and to promote the development of competent biologists and scientifically literate citizens.

Our curricula introduce the student to basic biological principles at the molecular, cellular, organismal, and population levels. Regardless of your interests or long-term goals, the degree programs offered by the Department of Biology will prepare you well. The programs provide either breadth of training in the biological sciences, or allow for concentration in discipline specific interest areas such as botany, zoology, microbiology, physiology, the paramedical fields of Medical Technology, Cytotechnology, or Histotechnology. Several year plus degree options are also available, thus facilitating smooth transition to degrees in the Physician Assistant program and physical therapy at Slippery Rock University, osteopathic medicine at Lake Erie College of Osteopathic Medicine (LECOM), pharmacy at the LECOM School of Pharmacy, dentistry at LECOM or West Virginia University, and chiropractic at Logan University of

Chiropractic or Palmer Chiropractic(see Pre-Professional Programs). Specialized opportunities exist for participation in undergraduate research and for off campus study (e.g. international experiences, internships, marine science).

Graduates may select careers in academia, business, health profession, teaching, industry, or government. A majority of our graduates matriculate into health related degree programs such as allopathic medicine, osteopathic medicine, physician assistant, nursing, physical therapy, occupational therapy, optometry, dentistry, public health, genetic counseling, chiropractic, and dietetics or discipline specific masters or doctorate programs, including a masters in secondary education. Whatever their individual specializations, the biology faculty share a commitment to students and have a genuine concern for their professional development.

Students majoring or minoring in biology must maintain at least a 2.000 average in biology. Before progressing to a 200-level course, students must earn a 2.000 in the 100-level basic requirement biology courses. Students may register in 200-level biology courses in any order but must maintain a biology average of 2.000 or better, before progressing to another course. A student must repeat any 200-level course that brings the biology average below a 2.000. Students must complete the 200 core sequence before progressing to 300- and 400-level courses in the major. Students should complete all 200-level biology requirements by the end of their sophomore year.

Chemistry

272 Advanced Technology and Science Hall
724-738-2031

Chemistry

- Prepare students for scientific career opportunities in industry and government.
- Prepare students for graduate study in biotechnology, chemistry, biology, physics, and environmental science
- Prepare students for entrance into schools of medicine, dentistry, veterinary medicine, optometry, nursing, physical therapy, engineering, medical technology, environmental science, pharmacy, and allied public health fields.
- Prepare students to enter the teaching profession in Elementary and Secondary Science Education.

Chair

Susan Zirpoli

Secretary

Lisa Hammers

Faculty

Paul Birckbichler, Thaddeus Boron, David Frohnappfel, George Lengyel, Ashley Loe, Min Soo Lim, Michael Stapleton, Qi Chen, Donald Zapien, Susan Zirpoli

"Slippery Rock was a life-altering experience for me. The chemistry courses I took as a freshman, and great professors, set my life's direction."

Randy Russell
Chairman and President of Ranbar Technology, Inc.
and Ranbar Electrical Materials, Inc.
Vice Chairman of Preservation Technologies, LLP

Communication

222 Eisenberg Building
724-738-2032

Communication Department

The fundamental mission of the Communication Department of Slippery Rock University is to provide high-quality undergraduate academic instruction, preparing its undergraduate majors to pursue careers as professional communicators in the areas of Journalism, Multimedia, and Public Relations; or to pursue careers in academia by preparing students for graduate study.

The Communication Department emphasizes "hands-on" project-based learning. We seek to provide the experiences and opportunities required for students to develop intellectually and socially, and to demonstrate professional skills, attitudes, confidence and self-reliance. We seek to promote this development in an open, nurturing, and friendly environment. We believe that our effectiveness in fulfilling this mission will be best measured by the collective excellence of our graduates, and by the successes they demonstrate professionally and in serving their communities.

Chair

Amy Walters

Secretary

Marilyn Garczynski

Faculty

Brett Barnett, Mark Chase, Thomas Flynn, Jennifer Foster, Joseph Harry, James Laux, Christine Pease-Hernandez, Li Pu, Katrina Quinn, Valerie Swarts, Amy Walters, Mark Zeltner

The Communication Department offers a Bachelor of Science Degree in three tracks: Emerging Technology, Journalism, and Public Relations; as well as a Bachelor of Arts in Communication. The students in each major complete a common core of courses that provide a solid foundation within the discipline, including visual aesthetics, research and analysis, communication law and ethics, and professional and career skills. Our degree programs are integrated, providing each major with a communication curriculum that combines an immersion in communication principles, development of speaking, writing and design skills, with practical professional application, ensuring that our students have a holistic experience, melding academic and professional communication. The capstone course for communication majors is Senior Seminar, which is one credit-hour, provides a deeper understanding of professional expectations, and hones students' career skills as they transition into the working world.

Our Digital Media Production program is recently updated to address the professional needs of the quickly evolving digital technology fields. Working with members of the Department's Advisory Board, composed of active professionals in publications, multimedia production, web design and web analytics, the program curriculum reflects industry expectations for entry-level professionals in graphic design and media production in a digital age.

The Journalism program has evolved as well, providing students not only with traditional journalistic training, but providing more emphasis in a converged New Media Journalism. Our program melds standard print journalism skills with the use of social media and digital video technology, as well as presentation formats (e.g., blogs) to allow student journalists to integrate a range of skills. The program offers Print and Broadcast emphases.

The BS in Communication-Public Relations program reflects the preparation expectations of the public relations profession. Based on surveys of employers and internship directors, the advice of our Advisory Board, assessment, and industry data, the curriculum was developed to enhance students' abilities to develop technology-based skills, in addition to core competencies such as research and writing. Not only will the changes allow students to better address new developments in the professional field, and to provide them new areas of specialization.

Maintaining the tradition of study of communication as a liberal art, and recognizing the often-blurred boundaries among communication specialties, we continue to offer an integrated Bachelor of Arts degree. Because communication

underlies all human pursuits, we seek to prepare students with the ethical standards necessary to preserve the ideals of democratic free expression. We also seek to develop their abilities to produce, distribute, analyze and critically consume communication. The Bachelor of Arts program is organized so that a student, working with their advisor, can develop a program of study that best suits their interests. The degree requirements are flexible, allowing transfer students and those who change majors later in their college careers to complete a Communication degree within a four-year time period.

The department has a vibrant and aggressive internship program available to qualified students. Internships are required for all students in the three Bachelor of Science programs are an elective option in the Bachelor of Science degree. Our majors have taken internships in advertising, public relations, emerging technology and multimedia, radio and television broadcasting, advocacy and non-profit organizations, social service agencies, newspapers, and magazines. Students have done internships throughout the United States and abroad.

Students who have completed 15-18 hours of communication courses, and have maintained an overall QPA of 2.0, with a 2.5 in the major, are qualified to undertake an internship. Internships are available for the Fall, Spring, and Summer semesters. The number of credit-hours for any given internship is optional, and depends on the number of weeks or hours a student commits to the on-site experience. Three credit-hours are applicable toward the communication major, with any credit hours in excess designated for free elective credits, still counting toward the 120 credit-hour requirement for graduation.

There are five professionally-oriented student organizations that communication majors are encouraged to participate in; WRSK Radio, Lambda Pi Eta Honorary, Public Relations Student Society of America, *The Rocket* newspaper, and WSRU-TV. Members of these groups engage in service and professional activities, as well as events and functions of a more social nature. These groups attend professional conferences, take field trips, perform service activities, participate in student focus groups, and provide student representation for a host of important department, college and university committees.

Our new all-digital television studio recently opened in Maltby Center, and includes an expanded studio and control room, a 24-seat classroom, an editing lab and a separate office. The studio is equipped with all new digital television production technology in the near future. We also possess a full mobile studio production package for live remote broadcasts.

Computer Science

Computer Science Department

Office: 275 Advanced Technology and Science Hall

Phone: 724-738-2040

Chair

Deborah Whitfield

Assistant Chairperson

Hongbo Zhou

Secretary

Vicki Sparano

Faculty

Read Seetan, Nitin Sukhija, Sam Thangiah, Abdullah Whabeh, Hongbo Zhou

The mission of the Department of Computer Science is to provide a broad based coverage of the intensive curriculum to prepare its majors for careers in a technical setting, and to provide thorough instruction for students aiming to pursue graduate studies in the computing disciplines.

The Department will actively support the University and the College's efforts to achieve the institution's various goals of providing broad based education, fulfilling its commitments to the community it serves, engaging in multidimensional evaluations and assessments, and ensuring the institution's continued vitality.

The Department will accomplish its mission in an environment that will promote close and lasting relationships among students and faculty.

The Department of Computer Science offers majors and minors with four concentrations. Each concentration prepares the student for challenging careers in computing. Moreover, each major is flexible enough to allow a wide selection of other courses from the Department of Computer Science or other departments within the University. With proper planning and selection of appropriate minor or individual courses the student majoring in any one of the three programs will be able to meet his/her academic goal in four years.

Counseling & Development

Office: 104 Carruth-Rizza Hall

Phone: 724-738-2035

Counseling & Development

The Department of Counseling and Development trains practitioners to deliver quality services to clients and students and to be reflective, ethical and competent in serving their diverse community. Department programs include Clinical Mental Health Counseling, Student Affairs in Higher Education, College Counseling and School Counseling. Our students are prepared according to professionally accepted standards and, where appropriate, for licensure / certification in their field of study.

The Student Counseling Center is also part of the Department of Counseling and Development. For information regarding the Student Counseling Center see the Student Counseling Center link.

Chair

Donald A. Strano

Secretary

Lorraine Vinski

Faculty

Chris Cubero, Jane Hale, Michael Ignelzi, Stacy Jacob, Molly Mistretta, Melissa Nard, Lisa Osachy, Mary Frances LeClair, Donald Strano

For description of graduate programs see the Graduate Catalog.

Criminology and Criminal Justice

Criminology and Criminal Justice Department

Our department offers a BA in Criminology and Criminal Justice and an MA degree in Criminal Justice. Our undergraduate degree program provides a foundation of knowledge needed for students interested in a variety of careers in the following areas:

- law enforcement
- probation and parole
- court administrator
- treatment specialist
- justice system

Our mission is to enrich the criminal justice community of Pennsylvania and the nation with ethically and critically informed graduates. We accomplish this by being recognized as a premier provider of rigorous, accessible, and high quality educational experience to learners in Pennsylvania and beyond.

Office: 211 Spotts World Culture Building

Phone: 724-738-2084

Email: criminology@sru.edu

Chair

Rebecca Ridener, PhD

Secretary

Kathleen Dombeck

Faculty

David Champion, Kerry Edwards, Xin Jiang, Sarah Kuehn, D. Neil McEwen, Jon McLister, Rebecca Ridener, Youngyol Yim Schanz, Samuel Staples

Slippery Rock University's Bachelor's in Criminology and Criminal Justice program prepares students for successful careers in the justice system—a space that is constantly changing within a framework that can be traced back to the Magna Carta. That's why an effective Criminal Justice professional has a breadth and depth of knowledge, with the ethical standards to successfully apply their expertise. SRU's major in Criminology and Criminal Justice will help you become just that.

Offering a premier program, Slippery Rock University will prepare you to become a knowledgeable and skilled criminal justice professional. Your coursework will ensure that you have the skills to meet the challenges of the workplace as you begin your career. SRU also offers an accelerated curriculum that allows you to complete a BA and an MA in just four years!

The Criminology and Criminal Justice curriculum includes classes in criminological theory, policing, courts and adjudication, corrections, research methodology, and justice administration.

Beyond coursework, we encourage students to learn from their experiences on campus and in the community. Student organizations such as CRIM Club, Alpha Phi Sigma, and Pre-Law Advisement allow students to collaborate and share ideas.

In addition to networking with other students, internships are an important facet of the program. SRU offers an optional internship to qualified students. In the past, students have interned at places such as the Department of Homeland Security, the U.S. Secret Service, the U.S. Marshals Office, and at local Pennsylvania agencies.

Internships give Criminology and Criminal Justice majors an advantage on the job market as they pursue careers in law enforcement, corrections, juvenile casework, probation, and parole. The solid foundation that students gain from SRU's program also prepare them for advanced graduate study.

In addition to the major, the department offers a minor in criminology, a specialization in Community Corrections, and a certificate in Criminal Justice and Spanish Cultural & Language Competency.

Students are encouraged to examine the Department of Criminology and Criminal Justice's website and/or contact the department for more detailed information about courses, activities, student organizations, career information for the concentration and graduate student opportunities.

Dance

Pearl Stoner Instructional Complex-West Gym

Dance Office 115 West Gym

Temporary Location 211A Spotts World Culture Building until March 1, 2019

Dance

The Department of Dance at Slippery Rock University promotes dance as an art form through the creative, technical, expressive and intellectual development of each student in a personalized environment. Superior education in performance, choreography, and teaching with additional components of wellness for dance, dance technology, and intercultural experience, prepares students for their chosen profession and entrepreneurial role in society.

Chair

Ursula Payne

Secretary

Melanie Martin

Staff Musician

Andrew Hasenpflug

Faculty

Nora Ambrosio, Jennifer Keller, Jaya Mani, Ursula Payne, Melissa Teodoro, Lindsay Fisher Viatori

Temporary Faculty

Sara Caplan, Teena "Marie" Custer, Dr. Jessica Davis, Jesse Factor

Professor Emeritus

Professor Nola Nolen

Slippery Rock University - 2018-2020 Undergraduate Catalog

In general, the Professional environment of Dance and the performing arts in the 21st century is continuously evolving. Students pursuing a career in dance, increase their employability by understanding how teaching, performance, creativity, technology and entrepreneurial skills function together. The Department of Dance offers the Bachelor of Arts and Bachelor of Fine Arts degree programs. Dance BA or BFA majors can obtain a Master of Science Degree in Adapted Physical Activity (offered by the Physical and Health Education Department). This innovative program is unique and is designed for dance majors who want to expand their credentials to integrate inclusive classrooms into dance, health, and wellness programs for people with disabilities of all ages. SRU students can also elect to minor in dance as a compliment to their major degree program.

The dance curriculum is designed for students seeking multilayered careers as dance professionals. It provides the advanced training needed to pursue performance, choreography, technology, administrative and teaching careers in dance and related fields. Students study contemporary dance practices in genres such as modern, jazz, ballet, Improvisation, partnering, hip-hop, afro-Colombian and classical Indian dance. Dance majors also develop advanced choreographic, leadership, pedagogy and research skills. Slippery Rock University is an accredited member of the National Association of Schools of Dance and the only Department of Dance in the State System of Higher Education.

Elementary Education/Early Childhood

Elementary Education/Early Childhood

Office: 104 McKay Education Building

Phone: 724-738-2042

Chair

Mary T. Vetere

Assistant Chair

Rose Heilman-Houser

Secretary

Brenda Fedokovitz

Faculty

Monique Alexander, Michelle Amodei, Carmine DeCarlo, Rose Heilman-Houser, Laura Kelley, Suzanne Rose, Anne Slanina, Robert Snyder, Sara Tours, Mary Vetere, Christine Walsh, Deborah Wells, Judy Werner and Linda Zane

The Department of Elementary/Early Childhood Education's mission statement is aligned with and reflective of the College mission, but is designed to specify the particular goals of the program. The goal of the Elementary Education/Early Childhood Department is to equip our graduates to meet the professional challenges of classrooms and school communities for the 21st century.

The Department of Elementary Education/Early Childhood offers an undergraduate certification program in Early Childhood Education (PK-4). Prospective early childhood teachers take balanced course work that provides a broad educational experience. Included are liberal studies courses as well as both professional and elementary/ early childhood education courses. Students (in this certification area) are required to complete field observation hours within course context with young children in a diverse setting. This early experience is followed by numerous field experiences in early childhood and elementary classrooms at the sophomore and junior year as well as student teaching during the senior year. Students are offered the opportunity to complete part of their student teaching in an international or urban setting. The primary objective of the elementary/early childhood education program is to develop competent, caring and effective state-of-the-art teachers, prepared to teach each child to high standards.

Multiple Certification Programs

While not required, it is strongly recommended that students complete a second area of certification, a minor, or an area of concentration in addition to elementary education. Our students have completed additional certifications in early

childhood education, special education, environmental education and modern languages. Students have also minored in many areas including dance, history, math and Spanish. Students seeking multiple certifications should declare their intent as early as possible in their academic career and recognize that this may require additional credits beyond those required for the baccalaureate degree. Students seeking multiple certifications may expect to complete student teaching experiences in each of the certification areas. We also offer a Letter of Completion for teaching online and an international teaching track. Specific requirements for additional certification, minors, and areas of concentration are available from advisers and the Department of Elementary Education/Early Childhood office, room 104 McKay Education Building. Students are encouraged to work closely with their academic adviser in choosing and declaring these other options.

Post-Baccalaureate Programs

Persons possessing a bachelor's degree may apply for admission to the post-baccalaureate program leading to early childhood education certification. This program is designed for those who have completed degree requirements in a non-education major or who desire a second certification after graduation.

The post-baccalaureate program includes up to 80 credits of coursework for non-licensed applications, with an accelerated program for middle-level or special education certified applicants and a required practicum. The practicum must be completed in an elementary/early childhood classroom under the supervision of a university faculty member, even if the student is certified in another area.

English

English

Office: 316 Spotts World Culture Building
Phone: 724-738-2043

Email: sruenglish@sru.edu

Chair

Danette DiMarco

Assistant Chair

Mark O'Connor

Department Secretary

Catherine Saylor

Faculty

Nancy Barta-Smith, William Covey, Jr., Danette DiMarco, Rochelle Hurt, Christopher Kreiser, I.T. Meztli, Mark O'Connor, Timothy Oldakowski, Sunita Peacock, Rachela Permenter, Derrick Pitard, Erica Scott, James Strickland, Jason Stuart, John Sylvestro, Frederick White

Within the liberal arts tradition, English courses integrate the studies of literature, language, and writing from ancient through contemporary authors. Courses in literature, film, linguistics, creative, and professional writing develop skills useful in law, public relations, government, business, publishing, teaching, and advertising. Students study textual analysis and interpretation, literary theory, ethics, linguistic development and multicultural literatures.

Exercise and Rehabilitative Sciences

Office: 304 Patterson Hall

Phone: 724-738-4864

Exercise and Rehabilitative Sciences

Chair

Patricia Pierce

Secretary

Connie Schmidt

Faculty

Jonathan Anning, Jeremy Dicus, Benjamin Gordon, Michael Holmstrup, Brock Jensen, Kimberly Keeley, Beth Larouere, Jeffrey Lynn, Patricia Pierce, Amy Rickman, Marketa Schublova, Allan Shook, Bonnie Siple, Joyan Urda, Steven Verba, Jacqueline Williams

The Department of Exercise and Rehabilitative Sciences houses two well-established and accredited undergraduate programs, athletic training* and exercise science.

*In tandem with national changes, SRU is transitioning the undergraduate Athletic Training BS program to a Master of Science degree. As a result, SRU is no longer accepting undergraduate students into the Athletic Training BS program. The SRU Class of 2020 will be the last cohort to graduate from the Bachelor of Science in Athletic Training degree.

Gender Studies

249C Smith Student Center

724-738-2359

Gender Studies

Gender Studies considers how gender, along with race, class, sexualities, disability and ethnicity, shape access to and exclusion from power in an interdisciplinary context.

Director

Cindy LaCom (Director)

The Gender Studies Program takes an interdisciplinary approach to teaching and learning, with courses in numerous departments: English, EGEO, Psychology, History, and Political Science, among others. Relevant to all majors, a minor in Gender Studies prepares students both to interact in a diverse and increasingly global professional world and to understand how our embodied experiences, while personal and individual, are also culturally shaped. In Gender Studies courses, students analyze power structures, gender identities, and culture to promote social change.

Geography, Geology, and the Environment

Geography, Geology, and the Environment

Office: 319 Advanced Technology and Science Hall

Phone: 724-738-2048

Email: gge-info@sru.edu

Department Chair

Stentor Danielson

Department Secretary

Cindy Schnur

Faculty

Patrick Burkhart, Patricia Campbell, Xianfeng Chen, Stentor Danielson, Heike Hartmann, Jack Livingston, Tamra Schiappa, Langdon Smith, Julie Snow, Jialing Wang, Michael Zieg

Geology and Geography are recognized for their contributions to the better understanding of the earth, nature-society relations, and global and regional situations as well as local issues. Our department's educational mission is to advance the perspectives and insights of geology, geography, and environmental science and studies via high quality curricular programs for our majors and high quality liberal studies courses for non-majors. Complementary missions are to extend knowledge in our disciplines through research and to provide service to the university and our region.

The Department of Geography, Geology, and the Environment offers a variety of field based perspectives on the study of the earth and people's relation to it. Students can focus on the physical nature of the earth, on the nature of places on the earth's surface, or on the geographic study of economic, political, and cultural processes. Or students may take a more interdisciplinary approach and integrate knowledge from many disciplines in the study of environmental issues.

Healthcare Administration & Information Systems

History

History

Office: 303 Spotts World Cultures Building

Phone: 724-738-2053

Email: SRUhistorydept@sru.edu

Chair

Lia Paradis

Secretary

Machelle Slagle

Faculty

William Bergman, Aaron Cowan, Margaret Denning, Melissa Ford, Alan Levy, Lia Paradis, Thomas Percy, Paula Rieder, Eric Tuten, Carlis White

The History Department of Slippery Rock University seeks to educate and mentor students to be future leaders in their endeavors and professions by disseminating a knowledge of the past through intensive instruction and research. The department is committed both to academic excellence and to the encouragement of creativity and innovation. We welcome and respect differences, because diversity is a key ingredient in quality education and general discourse. We seek to recruit students from all backgrounds and to foster a culture that instills a sense of responsibility for the broader community. We encourage open debate of ideas within an intellectual environment of mutual respect.

History is a discipline that supports the liberal arts concentrations in the humanities and the social and behavioral sciences. Its aim is to place men and women and their achievements in the proper perspective of western heritage and the heritage of other cultures. The concentration in history is designed to develop a knowledge of the past with special emphasis on an understanding of contemporary problems. The key to historical scholarship consists of the exercise of critical analysis in order to evaluate and discover the comparative significance of human beings and events.

History majors or social science majors with a concentration in history enter careers in business, government agencies and education or pursue graduate work in history, law, and other professional schools. Students regularly complete internships at the Old Stone House, local historical societies, colonial forts in Western Pennsylvania, and other historical sites in the United States. History students frequently take courses in foreign countries offered by SRU history faculty.

Homeland/Corporate Security Studies

Department of Homeland/Corporate Security Studies

215 Spotts World Culture Building

724-738-2005

Chair

Dr. Susan Lubinski

Secretary

Deborah Kosciuszko

Faculty

Jackie Deloplaine, Jonathan Henry, Devin Kerins, Bryan Leadbetter, Susan Lubinski, James Shearer, James Snyder, Angele Stoebener, Brian Wisneski,

Vision

Building ethical security professionals who will solve the complex security issues of tomorrow

Mission

Helping students build strong foundations to prevent, protect, minimize the effects of, and respond to complex security threats and provide for the successful recovery from those threats in both the public and private sectors.

The Homeland/Corporate Security Studies department supports this mission through a focus on:

Cultural Awareness

Interpersonal skills

Communication skills

Ethical decision making

Student engagement

Internships

Experiential learning

The Department of Homeland/Corporate Security Studies, as part of the College of Liberal Arts, exists to serve students interested in security careers and to equip them with the necessary knowledge and skills to become the security leaders of tomorrow. The Department of Homeland/Corporate Security Studies offers a Bachelor of Science in Homeland Security degree and a Bachelor of Science in Corporate Security (private security management) degree. The Bachelor of Science in Corporate Security has two concentrations: Fraud and Organizational Security. The Organizational Security concentration prepares students to protect people, property, information, and assets. This concentration provides a substantial amount of knowledge needed to take the various certifications offered by ASIS International. The Fraud concentration dives deeper into the protection of the economic assets-both tangible and intangible. The Fraud concentration provides a substantial amount of the knowledge needed to take the Certified Fraud Examiners certification offered by the Association of Certified Fraud Examiners.

The Homeland Security and Corporate Security majors prepare students for careers in both the private and public sector. The degrees also provide a foundation for students who want to pursue advanced degrees in the study of security.

In addition to the two majors, the department offers minors in the following: Fraud, Homeland Security, and Organizational Security. Three certificates are also offered: Fraud, Homeland Security, and Organizational Security.

For detailed course information see the Course Descriptions section of this catalog or the program of interest.

Hospitality, Event Management & Tourism

110A Eisenberg Building
724-738-4865

Chair

Bruce Boliver

Secretary

Michelle Orr

Faculty

Bruce Boliver, Christine Glenn, Lalanda Stromp, James Dombrosky, Se Eun Lee

The department of Hospitality Event Management and Tourism offers a Bachelor of Science degree in Resort, Recreation, and Hospitality Management.

The mission of the Resort, Recreation, and Hospitality Management major is to develop entry-level professionals in the hospitality and tourism fields with competencies in administration, management, leadership, programming, planning, sustainability, hospitality, and business skills. This is accomplished by providing quality academic preparation that incorporates both classroom and supervised practical experiences.

The department cooperates closely with a number of agencies and organizations in the hospitality and tourism industry to provide quality academic and practical experiences. Cooperative agreements with a variety of resorts, hotels, cruise lines, VCB's, country clubs, arenas, YMCA's, municipal recreation departments, and campgrounds provide ample opportunities for students to acquire a sound base in the practical application of theory, knowledge, and skills provided in the classroom.

Graduates of the program are currently employed in positions within the hospitality and tourism fields. Many are serving as resort and cruise line recreation directors and managers, YMCA directors, event planners, camp directors, front desk managers, hotel assistant GM's, and municipal recreation directors.

Interdisciplinary Programs

Interdisciplinary Programs

Office: 200 Spotts World Culture
Phone: 724-738-4192

Chair

Armand Policicchio

Secretary

Drew Campbell

Faculty

Aksel Casson, Alice DelVecchio, Richelle Dykstra, Ahmad Khalili, Cindy LaCom, Susan Parsons, Armand Policicchio

The BS, Interdisciplinary Programs is an outcome based degree that draws upon the richness of a liberal arts curriculum, incorporating and joining together social science theory and practice with theory and practice from the

professions. This degree can lead into employment after graduation or to graduate school. The degree can be a stand-alone degree; it can be part of a program of studies that utilizes two majors (Interdisciplinary Programs and another major) or it can link Interdisciplinary Programs and one of more minors. The faculty in the Department of Interdisciplinary Programs encourages students to develop programs of study that link complimentary areas together, as described above. This approach can lead to the development of broader knowledge and understanding and the development of multiple skill areas. These are important assets to any student as they seek employment and/or look to graduate work.

The BS, Interdisciplinary Programs degree offers the student a choice among seven concentrations, many with specific subfields. They are:

Concentrations and subfields, where noted, are available in the following areas:

- **Anthropology**
 - Applied Anthropology
 - Biological Anthropology
 - Cultural Anthropology

- **Cultural Area Studies** (this concentration is jointly operated by both the Department of Interdisciplinary Programs and the Department of Modern Languages and Cultures)
 - American Studies
 - Asian Studies
 - European Studies
 - Latin American Studies
 - Middle East Studies

- **Gender and Diversity Studies**
 - Diversity
 - Gender

- **Leadership Studies**

- **Liberal Arts**
 - On-campus Degree Completion
 - Online Degree Completion
 - Individually Designed Program of Study

- **Philanthropy and Nonprofit Management**

- **Sociology**
 - Applied Sociology
 - Medical Sociology
 - Public Sociology

Minors offered by the Department of Interdisciplinary Programs are:

- **Anthropology**
- **Leadership Studies**
- **Philanthropy and Nonprofit Management**

- **Sociology**

Other minors/programs associated with individual faculty in the Department of Interdisciplinary Programs are:

- Asian Studies Minor (with the Asian Studies Program)
- Gender and Diversity Studies Minor (with the Gender and Diversity Studies Center)

Degree Requirements

The BS, Interdisciplinary Programs degree is a 42 credit hour program. It has five outcomes that are common to all of the concentrations. They are:

Core Requirements

1. Oral and Written Communication Outcomes – 6 credits
2. Interpersonal Skills and Civic Responsibility Outcomes – 6 credits
3. Quantitative, Analytical and Critical Thinking Skills Outcomes – 6 credits

Emphasis Requirement

1. Emphasis Area Outcomes – 24 credits

Experiential Learning Requirement

5. Experiential Learning Outcomes – credit or non-credit

Each concentration assigns different courses to be taken to meet the outcomes. Please check the Curriculum Guides for each concentration for specific course requirements. Where the guides indicate that the course requirement is by advisement, please consult with your academic advisor for the courses needed to meet that particular requirement. The Experiential Learning requirement is one that is completed over the course of your time within the concentration. Students can complete this requirement with credit coursework and/or non-credit activities approved by your advisor. See your advisor for details.

Requirements for the Liberal Arts Concentration

Please note that students seeking the Liberal Arts concentration must meet one of the following requirements:

- **On-campus Degree Completion:** open only to current SRU students having a 2.00 GPA and at least 90 credits. A meeting with a faculty member in the department is required before a student's change of major into the department is accepted.
- **Online Degree Completion:** must have a 2.00 GPA; open to current students, readmitted students and transfer students. A meeting with a department faculty member, by phone, e-mail or in person is required before a student's change of major or declaration of major into the department is accepted.
- **Individually Designed Program:** current students must have a 2.00 GPA and less than 90 credits and is open to transfer students with a transfer GPA of at least a 2.00. A meeting with a department faculty member in the department is required before a student can declare a major in the department.

Additional Information

Newly admitted students (First Year students or Transfer students) can declare a major and select a concentration upon admission to the university.

Current students, after their initial semester of attendance, must have earned a 2.00 GPA before they can change their major to Interdisciplinary Programs.

Students are encouraged to examine the Department of Interdisciplinary Programs website and/or contact the department for more detailed information about courses, activities, student organizations, career information for the concentration and graduate student opportunities.

Library

Management & Marketing

Mathematics & Statistics

200 Vincent Science Center
724-738-2061

Mathematics

The mission of the Mathematics Department at Slippery Rock University is focused on three areas:

1. To provide high quality programs to mathematics majors who plan to teach secondary mathematics, work in business or industry, or attend graduate school; to provide appropriate service courses for other programs; and to provide an exciting and relevant liberal studies experience for Slippery Rock students.
2. To expand the boundaries of mathematical knowledge and encourage and enable students to participate in scholarly research.
3. To provide service to the Slippery Rock University and wider communities.

Chair

Richard Marchand

Secretary

Debra Dickey

Faculty

Robert Buck, Michael Detlefsen, Jeffrey Forrest, Elise Grabner, Gary Grabner, Mohammad Ismail, William Lindgren, Richard Marchand, J. Lyn Miller, Gary Roberts, Andrzej Szymanski, Robert Vallin

"The mathematics department (faculty) was instrumental in providing a learning atmosphere conducive to my development as a student and an individual. They accomplished this by being professionals and friends, as well as professors. In addition to learning the technical concepts as a mathematics major at SRU, the most valuable tool that I've developed is being able to make decisions analytically with confidence, in my profession and in life."

Andrew Wozniak, '98

Students who have the desire and the ability to major in mathematics will find a course of study that will meet their personal needs. Graduates are prepared for various career opportunities including jobs in actuarial science, finance, business, insurance, government, statistics, industry, or education. Many students go on to do graduate work in various disciplines, including mathematics and professional schools.

SRU mathematics majors are employed in such diverse occupations as operations research analyst, consulting actuary, university professor, engineer, statistician, information analyst, auditor, international account executive, senior computer analyst, senior commercial loan officer, manager of performance monitoring, and teaching in both the private and public sectors.

Mathematics majors at Slippery Rock have the opportunity to participate in the Math Club and to join Kappa Mu Epsilon, a national mathematics honorary. Majors participate in senior research projects directed by faculty members. Math majors have attended and given presentations on their projects at national meetings of the Mathematical Association of America; meetings of the Allegheny Mountain Section of the Mathematical Association of America; the annual Mathematics and Statistics Student conference at Miami University of Ohio; the annual Pi Mu Epsilon meeting at Youngstown State University, and the annual State System of Higher Education Mathematical Association meeting. There are two or three students doing informal, paid internships in actuarial science and/or statistics each summer.

The Mathematics Department offers minors in Mathematics, Statistics, Actuarial Studies, Elementary School Mathematics, and Middle School Mathematics. Certificates* are available in Elementary School Mathematics and Middle School Mathematics. The department also offers a Certificate in Statistical Applications.

* This is not related to Pennsylvania State Certification.

Military Science (Army ROTC)

Military Science Department

Office: Lowry Center

Phone: 724-738-2019

Email: sru.rotc@sru.edu

Department Chair

LTC Joseph Richey

Department Secretary

Becky Lindey

Faculty

CPT Joe Barrow, Bret Rogowitz, Chris Wolf, Daniel Renaud, Melvin Carr, SSG Ryan Graeves, CPT Stephen Peters, CPT Adam Readout, MSG Taylor Donohoe

The Department of Military Science (Army ROTC) provides a program of leadership development, which prepares college students for service as Officers in the United States Army. After graduation, they serve as commissioned officers on active duty, or as an officer in an Army Reserve or National Guard unit. These officers possess self-confidence, self-discipline, physical stamina, poise, and other attributes essential to leaders of character -- one who is prepared to serve the nation or the commonwealth both in and out of uniform.

Modern Languages and Cultures

218 Spotts World Culture Building

724-738-2062

Modern Languages and Cultures

The department's mission is to prepare students for the challenges of an increasingly interconnected world. Our main goal is to enable the acquisition of world languages other than English for SRU students. We aim to educate world citizens who will acquire linguistic skills through an intellectual process that takes into account the perspective of the target culture. Our mission thus supports the vision statement of Slippery Rock University which encourages us to excel as a caring community of lifelong learners connecting with the world.

Chair

Adelaida Cortijo

Secretary

Deb Kosciuszko

Faculty

Ana Maria Caula, Adelaida Cortijo, Gisela Dieter, Yukako Ishimaru, Marnie Jo Petray

"I can honestly say that without such a caring and hardworking department, I would not be where I am today. Living and working in France having the time of my life. The department provided me with many experiences, both on campus and off, that I will never forget." Katie L. Snedecker, BA French 2004

"I feel very knowledgeable and competent as a future teacher thanks to the wonderful guidance and instruction that I received from my foreign language professors and the educational department. I am proud that I will be able to take my SRU education and use it to make a difference in the future." Regina Jeanette, BSED Spanish 2005

"Thanks to the amazing MLC staff, I learned how to speak two other languages and I'm now using both of them working and studying abroad!" Vincent Celender, BA French 2005

The study of modern languages will develop your linguistic skills, prepare you to better understand the culture or cultures associated with them and generally broaden your horizons. The greater intellectual curiosity that you will acquire and the ability to express yourself in another language will prepare you for the challenges of the global age we live in.

As a student of modern languages, you should look forward to a world of career fields, some of which include business, government, journalism, education, healthcare, interpreting or translating. You are strongly encouraged to discuss your career goals with your advisor or the department chairperson. Interested students are able to participate in the French Club, the Arabic Club, the Japanese Club, or the Spanish Club.

Students with previous language experience must take an appropriate modern language placement test to determine course eligibility. Students who wish to receive academic credit for previous experience must take the appropriate CLEP examination administered by the university. The CLEP examination must be taken before enrollment in foreign language courses and for freshmen within the first few weeks of the semester.

Arabic, Chinese, French, Japanese, Korean, and Spanish 101, 102, and 103 satisfy the liberal arts language requirement for the Bachelor of Arts degree in any discipline as well as the liberal arts goal and enrichment requirements in the global community area.

Music

225 Swope Music Hall
724-738-2063

Music

The Slippery Rock University Department of Music is committed to providing learning experiences to meet the current and future needs of today's student. We recognize the unique power of music to express emotion, to teach, to foster communication, to access memories, to motivate, to initiate movement, and to provide enrichment for the community-at-large. The department will provide an environment for serious study and musical performance as we prepare our students for successful careers in music education, music therapy, and performance.

Chair

Colleen Gray

Secretary

Laurel Patterson

Faculty

James Berry, Warren Davidson, Cassandra Eisenreich, David Glover, Colleen Gray, Susan Hadley, Nicole Hahna, Jonathan Helmick, Jason Kush, Kathleen Melago, Christopher Scott, Glenn Utsch

"The contract for my first job was signed and approved a month before I graduated because Slippery Rock University prepared me to teach, to learn, and to live as a competent, productive citizen. Five years later, I am happily and successfully teaching music and directing high school bands in the same school district."

Tonia Asel '95
Music Education/Performance Major

The Department of Music offers students the opportunity to focus their studies on education, therapy, performance, or a combination of these majors. Courses include study in applied music performance, music literature, music theory and composition, music education, music therapy and a variety of instrumental and vocal performing ensembles. Students electing courses in music will develop performance skills and interests and a greater perception of their musical heritage and environment. The music major may look forward to careers in private teaching, performance, music education, or music therapy.

Mu Phi Epsilon is an international, professional music fraternity that seeks to advance music in America and throughout the world, the promotion of musicianship and scholarship, loyalty to the Alma mater, and the development of true bonds of friendship. Election to Mu Phi Epsilon is based upon scholarship, musicianship, character and personality. Membership is offered to music majors and minors who are in their second semester and have attained specific standards in the above areas. The Delta Mu chapter at SRU, founded in 1994, sponsors concerts and provides many services within the music department.

Natural Sciences & Mathematics

Courses team taught by different departments.

Nursing

104 Vincent Science Center
724-738-2065

Nursing

The Department of Nursing offers two totally online programs: RN to BSN Completion Program and School Nursing Certificate Program. The RN to BSN Completion Program at Slippery Rock University leads to a bachelor of science in nursing. It is designed to meet the needs of Registered Nurses who are graduates of hospital diploma nursing programs or Associate Degree programs in nursing.

The purpose of the RN-BSN program is to prepare baccalaureate educated practitioners of nursing to provide clinical leadership in the provision of health care to persons, families, and groups in a variety of settings. The program provides a strong educational foundation upon which to build graduate study. The purpose of the School Nurse Certificate program is to prepare students for Level I certification with the Pennsylvania Department of Education.

Chair

Mary Ann Thurkettle PhD, RN

Secretary

Tanya Turner

Faculty

Michele Crytzer, Diana Jones, , Sandra Leh, Christina Silva, Mary Ann Thurkettle

This program is designed to meet the needs of registered nurses who are graduates of hospital diploma nursing programs or associate degree programs in nursing. The nursing curriculum includes theoretical content. The flexibility of the program enables the registered nurse to attend school on a part-time or full-time basis. The purpose of the program is to prepare practitioners of nursing to provide clinical leadership in the provision of health care to persons, families, and groups in a variety of settings, using the nursing process. The program provides a strong educational foundation upon which to build graduate study. The program is accredited by the Accreditation Commission on Collegiate Nursing Education (CCNE).

Admission requirements include: transfer in of 63 or more non-remedial completed college credits, and active unrestricted Registered Nurse license, and a 2.5 QPA in previous academic work. The curriculum for the program includes: nine (27 credits) of core nursing courses, two (6 credits) courses of nursing electives, and two (6 credits) of required supportive courses. All program courses are available online. Students in the RN-BSN upper division nursing program are required to maintain the 2.500 GPA throughout the nursing program from entry to exit. The students must have and maintain BOTH the cumulative 2.500 GPA and the nursing major 2.500 GPA. Other minors can also be pursued while enrolled in the BSN program.

Parks, Conservation and Recreational Therapy

Office: 102 Patterson Hall

Phone: 724-738-2068

Parks, Conservation and Recreational Therapy (PCRT)

The Department of Parks, Conservation and Recreational Therapy offers degree programs leading to the Bachelor of Science in Parks and Resource Management and a Bachelor of Science in Recreational Therapy.

The Department cooperates closely with a number of government and private agencies and organizations in an effort to provide quality academic and practical experiences. Cooperative agreements with a variety of parks, recreation, environment, and health-related agencies provide ample opportunities for students to acquire a sound base in the practical application of theory, knowledge, and skills provided in the classroom.

Graduates of the programs are currently employed in positions within the park and recreation fields. Many are serving as recreation therapists, park managers and superintendents, national and state park rangers, outdoor recreation planners, environmental educators, nature and history interpreters, and other similar positions.

The mission of the Park Resource Management program is to provide students with the knowledge, skills, and abilities to function as park and resource management professionals for a variety of federal, state, local, and private agencies and organizations. The broad-based program approach provides study in natural history and ecology, natural systems management, cultural resource management, and contemporary issues in parks, recreation, and resource management. Coursework focused on administrative, interpretive, and sustainable planning aspects of park and recreation is also featured.

The mission of the Recreational Therapy program is to offer a quality undergraduate curriculum that prepares students for current entry-level practice in a variety of health and human service settings. The emphasis is on recreational therapy as a means to restore, remediate and/or rehabilitate individuals with a diversity of disorders/disabilities. The program integrates coursework, practical experiences, and professional activities as a foundation for the development of competent professionals.

All majors must qualify for department advanced standing prior to enrollment in Internship (PCRM 450, RCTH 450).

Chair

Deborah Hutchins

Secretary

Melanie Bell

Faculty

Whitney Angelini, Heather Bright, Jennifer Carben, Colleen Cooke, Shawn Davis, Deborah Hutchins, Christopher Leininger, John Lisco, Rebecca Thomas

Philosophy

302 Spotts World Culture Building
724-738-2071

Philosophy

Chair

Richard Findler

Secretary

Diane Robbins

Faculty

Andrew Colvin, Katherine Cooklin, Richard Findler, Lisa Schoenberg, Tom Sparrow

"SRU is an excellent place to study philosophy because the faculty members are committed to student learning and student success- both in the discipline of philosophy and in life. The education I have received has been valuable to me because it has taught me to critically question the world by looking at it from many different p."

Megan Kuhr
Class of '12
Attending Kent State University
M.L.I.S. Program

"Much of the success that I've had as a law student is attributable to the analytic and argumentative skills I've developed as a student in the Slippery Rock University Philosophy Department."

Bernard Kwitowski
Class of '01
Attorney, Thomas, Thomas and Hafer, LLP
Super Lawyers Rising Stars 2010

Philosophy teaches students to inquire in a systematic way into fundamental questions connected with one's relationships to oneself, others, society, and the world. It helps students pull their studies together into a unified project and to think about broader perspectives and implications, which are often lost sight of in specialized study. In particular, philosophy helps students to develop the following critical thinking essential to succeeding in academics, in the workplace, and in one's life.

- Analytical thinking: logical skills involving the ability to break down complex ideas and problems into their elements and to perform reasoning tasks efficiently and correctly.
- Evaluative thinking: skills of making intelligent ethical, social, esthetic, and religious value judgments related to fundamental issues in contemporary society and their implications for students' personal and professional lives.
- Synthetic thinking: skills of pulling together a variety of views and perspectives and resolving intellectual and practical conflicts related to the many competing ideas and information now readily available.

Philosophy prepares students for advanced studies in its own and in related fields, especially law. It is also good preparation for many careers that require a high level of logical and linguistic ability, ethical awareness, and the capacity to form sound interpretative judgments within complex and dynamic situations, on a local or global scale. Because of the strong emphasis on logical reasoning and critical thinking, philosophy majors are well suited to deal with rapid technological change. New roles have opened up in health care, government, education, business, environmental fields, and science and technology for those with professional training in ethics. Traditional philosophical education has been valuable for success in:

- the sciences, especially in relation to their theoretical foundations and their social impact;
- the comparative study of cultures
- law and policy studies
- business and the helping professions.

Many students combine philosophy with another field. Slippery Rock University's liberal studies program relies extensively on courses in philosophy to afford an important foundation for an undergraduate education.

Students have the opportunity to participate in frequent trips to conferences, join the Philosophy Club and achieve membership in the Philosophy Honorary.

Physical and Health Education

Physical and Health Education

Office: 109 Morrow Field House

Phone: 724-738-2072

Vision for the future—What our students will do

Graduates of the SRU Physical and Health Education Department will be leaders who educate and empower individuals to be physically active and healthy and who advocate the benefits associated with a healthy lifestyle.

Mission-Current—Day to Day—What we do

Prepare graduates who are passionate about health, physical activity and fitness, to promote lifelong physical activity, cognitive function, and overall physical wellness.

Chair

Joanne Leight

Secretary

Sherri Novad

Faculty

Robert Arnhold, Wei Bian, Hannah Brewer, Gary Clark, Wendy Fagan, Ethan Hull, Dallas Jackson, Istvan Kovacs, Joanne Leight, Wenhao Liu, Randall Nichols, Robert Ogoreuc, Jeffrey Smith, Traci Zillifro

The Department of Physical and Health Education offers a major degree program in Health and Physical Education. The two tracks are:

- School Wellness Education - Teacher Certification Program that prepares students to teach both health and physical education in grades K-12
- Physical Activity and Fitness Management that prepare students to teach, lead and manage physical activity and fitness in community and commercial settings

Statistics project the employment of health and wellness educators will grow faster than the average for all occupations for the foreseeable future. These careers continue to grow as a direct result of healthcare costs and increasing need for awareness of disease prevention and health promotion. This results in the need for *Aquatic Professionals - Adapted Physical Activity Professionals - Outdoor Professionals - and Coaching Education Professionals*.

Students are also encouraged to include an additional minor in one of the following: aquatics or coaching. The total program is designed to provide a comprehensive knowledge base in health and physical education pedagogy.

Physics and Engineering

208 Vincent Science Center
724-738-2074

Physics

The mission of the Physics Department at Slippery Rock University is to service the Liberal Studies Program, provide content courses for other departments, and provide high-quality major and pre-engineering programs. The department is equally committed to each of these three areas and is actively involved in curriculum and program review on an ongoing basis. With regards to the Liberal Studies Program, the department aims to offer courses that complement the "Seven Critical Goals Towards Becoming an Educated Person." The department also offers many courses that provide basic and advanced content to students with other majors. Finally, the department aims to provide major programs that allow technical specialization and flexibility to its graduates. Many possible career options are available to physics majors; the department's curriculum provides the training necessary to many of these options.

Chair

Ben Shaevitz

Secretary

Cheryl Dolan

Faculty

Ben Shaevitz, Athula Herat, Rizwan Mahmood, Krishna Mukherjee, Manuel Valera

"SRU physics is a small department that offers infinite possibilities for achievement. The SRU Physics department infuses classical and modern theory with advanced and up-to-date experimentation and teaching tools. The faculty is small and very personal, offering guidance based on the student's learning abilities rather than from a "textbook" viewpoint. The faculty is knowledgeable in both subject content as well as information presentation. If you are a great science student, or you are learning about science for the first time, the SRU Physics department will guide you through an intricate, student-friendly web of lecture, problem solving, experimentation, data analysis, and research. Whether you are training to be the next Heisenberg or Einstein, the next great engineer, the next great high school teacher, or simply learning problem solving skills to use in any workplace, the SRU Physics department is a gateway to success."

-Stephen Murray

B.s in Physics, Pre-Master in Education

Political Science

203 Spotts World Culture Building

724-738-2075

Political Science

Chair

David Kershaw

Secretary

Heather Bennett

Faculty

Heather Frederick, Daniel McIntosh, Pragati Rawat, Heather Rice, Sharon Sykora

"Unlike the faculty at a lot of colleges and universities these days, the faculty at SRU was always incredibly accessible and helpful, always willing to discuss intellectual and social issues, and giving of their time on a personal level, as well. I've found that the opportunities I had to work one-on-one with professors like Rich Martin, Carol Prorok, and

Bernie Freydberg served as a solid foundation for the student-faculty interaction I experienced at Yale Law School. My professors at SRU never allowed me to become complacent, and always challenged me to discover something new. For those who have the initiative to forge independent relationships with faculty at SRU, the rewards are terrific."

M. Lorraine Ford '94
Truman Scholar (Pa.) '93
Yale Law School '98
Attorney, Morrison & Foerster LLP (New York, NY)

Psychology

309 Vincent Science Center
724-738-2077

Psychology

Psychology is the study of human and animal behavior. Psychology has three faces: It is a discipline, a major subject of study in colleges and universities. It is a science, a method of conducting research and of understanding behavioral data. Psychology is also a profession, a calling that requires one to apply special knowledge, abilities, and skills in order to solve human problems. Thus, the department's mission is threefold. First, we strive to provide our students with discipline specific knowledge that is accurate and reflects current approaches in the field of psychology. Second, we instruct them in the scientific method of acquiring knowledge and enhance their research skills and sense of inquiry. Third, we prepare students to enter the profession in which they can apply the knowledge and abilities acquired to understand and suggest solutions for real-world problems. The cornerstone of our mission and our curriculum is a commitment to provide our students with a strong experimental foundation, or understanding that psychology is a science, and as such uses the scientific method to conduct research and to understand behavior. This experimental foundation is necessary so that students are prepared to do research, or if that is not in their plans, to be critical consumers of the research literature in whatever area of psychology they choose.

Chair

Jennifer Sanftner McGraw

Secretary

Arlene Widenhofer

Faculty

Elizabeth Boerger, Catherine Massey, Chris L. Niebauer, Ann Romanczyk, Jennifer Sanftner McGraw, Linda Veronie, Jennifer Willford

Psychology is the science of behavior. The discipline is experiencing unprecedented growth and change. This is an important and exciting science that attempts to understand human behavior.

The Department of Psychology is oriented toward meeting three broad educational needs: preparation of students for occupations related to the field; preparation of exceptional students for entry into graduate programs at universities; preparation for other fields, such as medicine, law, social work, and others. The department has established experimental laboratories for studying human behavior, including character and moral development and imagination in children and young adults, gender development and interpersonal processes in emerging adulthood across the lifespan; LGBT identity development and health; brain functioning and consciousness; social judgment, stereotypes, and cross cultural studies; eating disorders and body image; personality and coping styles; brain structure and function via brain imaging and effects of drugs in the developing brain.

Opportunities for professional involvement include Psi Chi, the Psychology Club, and the Reflections Body Image Organization who organize and participate in service, fundraising, social, and educational activities. There are opportunities to gain research experience via participation in departmental research activities. A significant number of

majors have achieved co-authorship on research presentations at national meetings and on articles published in professional journals. Internship experiences generally reflect the career interests of the student. Recent sites include agencies offering services involving troubled youth, drug and alcohol rehabilitation, geriatric agencies, children and youth services, crime victim advocates, and general psychiatric facilities.

Alumni have successfully pursued graduate training in a wide spectrum of professional areas including clinical, counseling, developmental and social psychology, as well as medicine and neuroscience. Most are involved in professional services.

Public Health and Social Work

Public Health and Social Work

Office: 111 Dinger Building

Phone: 724-738-2267

Chair

Michael Cleary

Secretary

Vonda Kuhn

Faculty

Thomas Bechard, Larry Breitenstein, Michael Cleary, Rhiannon Condon, Kimberly Forrest, Marcy Leeds, Christophas Walker, Adelle Williams

Safety Management

Safety Management

Office: 106 Strain Safety Building

Phone: 724-738-2017

Email: safety@sru.edu

Department Chair

Joseph Cali

Department Secretary

April Coleman

Faculty

Michael Adamczyk, Angela Bernardo, Joseph Cali, James Culligan, Hope Dropp, Joseph Losko, David McCall, Cindy Medford, David Renz, and Rona Smeak

The Department of Safety Management offers a Bachelor of Science with a major in Safety Management.

The mission of the Safety Management Major at Slippery Rock University is to provide a quality education in the managerial and technical aspects in the field of professional safety practice. Safety Management involves protecting and preserving people, property, productivity, and the environment.

The Bachelor of Science Degree in Safety Management at Slippery Rock University meets the **Board of Certified Safety Professionals (BCSP)** requirements as a Qualified Academic Program (QAP). The Safety Management major at SRU is an **Institute for Safety and Health Management (ISHM)** Board-approved degree program.

GPA policy

- All Transfer, Readmit, Change of Major, and Post Baccalaureate students must have an overall GPA of 2.25 before admitted to the Safety Management Major.
- Mid-term grades are not to be calculated when determining GPA for entry into the Safety Management Major.
- Once admitted to the Safety Management major, all students must maintain an overall GPA of 2.0 and a Major GPA of 2.0 in order to graduate with a Bachelor of Science Degree in Safety Management. It is solely the students' responsibility to monitor and meet this requirement.
- The Safety Management Department does not process any Change of Major requests two weeks prior to, or during any registration period.

Secondary Education/Foundations of Education

114 McKay Education Building
724-738-2041

Secondary Education/Foundations of Education

The Department of Secondary Education/Foundations of Education is committed to the development of professional educators through the careful integration of theory and practice. Moreover, it is SEFE's position that there is an inseparable fusion between teachers' professional identities and their personal identities. Teaching is a reflective process that takes place within a diverse social, economic, political, and cultural complex that mandates continual development of the teacher. Since teaching does not take place in a vacuum, it is part of our mission to provide opportunities for the total cognitive and affective development of our students so that they may become productive members of a teacher/ scholar community who will conduct research and disseminate knowledge that will enhance the education of students at all levels.

Chair

Edwin P. Christmann

Secretary

Germaine Newstrom

Faculty

Padma Anand, Edwin Christmann, John Hicks, Jason Hilton, Jeffrey Lehman, Junko Yamamoto

The mission of the department is to provide secondary education majors with the knowledge, and skills to succeed in today's changing classrooms. Moreover, the merging of theory with practice and the building of a solid background in foundations of education for all middle and secondary education majors are additional hallmarks.

Prospective secondary school teachers are required to take for certification, coursework in an academic discipline that is equivalent to a major in that discipline. Successful completion of a prescribed program and certification examinations are required for eligibility for certification by the Pennsylvania Department of Education.

A secondary education major is advised by a faculty member in the Department of Secondary Education/Foundations of Education. Students may choose to attain dual certification, that is, to become eligible to teach in more than one subject area. The decision to attempt this dual certification should be made as early as possible in order to facilitate scheduling. It is the responsibility of the students to understand the certification requirements and to schedule all required courses.

Requirements for the Bachelor of Science in Education

The department uses both state and national guidelines to continually update its accredited programs. Therefore, the specific course of study and the most recent requirements leading to teacher certification in this department are available in the departmental office or from the student's advisor. See also Teacher Education Policy Manual, available in 105 McKay Education Building and on the College of Education homepage. Areas of teacher certification in secondary education at the baccalaureate level include:

English
French
Social Studies - History
Spanish

Areas of teacher certification in middle level education at the baccalaureate level include:

English- Language Arts
Social Studies
Science
Mathematics

Areas of Teacher Certification in Secondary Education at the master's level:

Biology
Chemistry
Earth and Space Science
General Science
Mathematics
Physics
English
Social Studies

Certification in these latter areas is available **only** at the graduate level as part of the master of education degree program. For more information about this program, including prerequisites, contact the Secondary Education/Foundations of Education office in 114 McKay Education Building.

Special Education

114 McKay Education Building
724-738-2085

Special Education

The Special Education Department is dedicated to the professional development of pre-service and in-service teachers, administrators, and related professionals in the field of Special Education. Our specialized programs, both on-campus and web-based, are centered on research-based classroom experiences and extensive field work in self-contained and inclusive settings, schools and agency settings. We believe that collaboration, service, professionalism, and leadership, combined with a strong knowledge base, are key components in the development of model professionals who are dedicated to individuals with exceptionalities throughout their lifespan.

Chair

Matthew Erickson

Secretary

TBA

Faculty

Richael Barger-Anderson, Vaughn Bicehouse, Matthew Erickson, Robert Isherwood, Jeremy Lynch, Michelle McCollin, Joseph Merhaut, Tony Mild, Mike Monfore, Ashlea Rineer-Hershey and Anne Rose.

The guidelines on admission, professional conduct, and student teaching for this department include, and may go beyond, those required for the College of Education as a whole. Details may be found in the Teacher Education Policy Manual.

The special education department's programs are for students who choose to pursue careers working with exceptional children who are identified or those who differ significantly from the "average" child to the extent that special instructional methods, materials, and/or related services are required for their education and treatment.

The department offers an undergraduate education program that includes courses in liberal studies, professional education, elementary education, and special education. Students are required to complete a minimum of 20 hours involved in direct contact with individuals in a diverse educational setting prior to their supervised teaching assignments at the junior/senior levels. Throughout the undergraduate program students are required to participate in experience-based learning in order to maximize their development as competent and effective future educators.

Sport Management

Sport Management

Office: 101 Eisenberg

Phone: 724-738-2060

Department Chair

Brian Crow

Department Secretary

Diane Robbins

Faculty

Robertha Abney, Brian Crow, Catriona Higgs

Our mission is to provide a learning environment that:

- Prepares students for a variety of careers in the sport industry
- Fosters independent critical thinking and effective problem solving
- Includes faculty who are committed to quality teaching, research and service
- Promotes collaborative efforts among faculty and students
- Develops students who have a commitment to personal and professional competency
- Emphasizes student accountability for academic performance and ethical behavior
- Prepares students to serve a diverse population in a global society

The SRU sport management undergraduate program has been in existence since 1977 and in that period has witnessed exponential growth and increased national prestige. The sport industry, due to its wide variety of positions, places unique demands on those involved in its management. These positions require management, marketing, accounting, finance, economics, communications, and legal skills specific to the sport setting. Therefore, the preparation of competent sport/business specialists is necessary. The present curriculum offers an excellent base in specific sport management courses and many sport management students complete various minors in communication, business and other specialized areas.

The curriculum continues to be reviewed and adapted to meet changes in the sport industry. Evaluations from student interns and agency supervisors create the basis of the university's considerations, along with program standards developed by COSMA. The Sport Management Department is accredited by COSMA (The Commission on Sport Management Accreditation) and is one of only 50 programs in the US to be accredited. In 2010, the Department of Sport Management was the first program in the US to be accredited by the Commission on Sport Management Accreditation (COSMA), and in 2017 was the first program to be re-accredited."

Theatre

214 University Union
724-738-2090

Theatre

Chair

Rebecca Morrice

Secretary

Melanie Martin

Technical Director

Michael Boone

Faculty

Deanna Brookens, Rebecca Morrice, Gordon Phetteplace, David Skeele, Laura Smiley

Studies and experiences in the theatre tap some of the deepest veins of human self-expression and confirm the abiding hold this unique art form has on thoughtful and imaginative people everywhere. Courses in theatre history examine the origins of the art and explore the ways in which theatre has responded to and developed from its times. Courses in acting or in the crafts of theatre enhance the skills of students, whether they seek eventual performance careers or simply wish to be more knowledgeable audience members. The performance of great dramatic literature enables

students to touch intimately some of the enduring ideas of civilization: love, death, hope, ambition, loyalty. People who succeed in the theatre have learned how to cooperate, how to work within deadlines and constraints, how to liberate and control expressiveness, and how to deal constructively with the tensions of performance.

The Department of Theatre sponsors an active co-curricular production program and anticipates moving into newly renovated, state-of-the-art performance spaces in the 2019-2020 academic year. Plays of wide-ranging interest and appeal are produced each academic year. Recent productions include Heathers, Frost/Nixon, Spring Awakening, Dead Man's Cell Phone, In the Forest, She Grew Fangs, Julius Caesar, A Christmas Carol, Electra: An American Gothic, Ghosts, December Things, and Dark North.

SRU currently offers the following programs in Theatre:

BFA in Acting, Musical Theatre Performance Concentration

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Dr. Kent O. Bushnell, Geography, Geology & Environm

Dr. Hannah K. Case, Modern Languages & Cultures

Ms. Wilma J. Cavill, Safety Management

Dr. William F. Chapman, Geography, Geology & Environm

Dr. Shium A. Chen, Counseling & Educational Psychology

Mr. Gerald A. Chesin, Curriculum & Instruction

Dr. Larry R. Cobb, Government & Public Affairs

Dr. Deborah J. Cohen, Modern Languages & Cultures

Mr. Louis Como, Library

Dr. Joan C. Condravy, English

Dr. Michael P. Conlon, Computer Science

Dr. Cornelius Cosgrove, English

Dr. Robert E. Crafton, English

Dr. John M. Craig, History

Mr. J R. Crayne, Art

Dr. David B. Culp, School of Business

Dr. Thomas Daddesio, Modern Languages & Cultures

Dr. David Dailey, Computer Science

Dr. Maryann R. Dailey, Nursing

Mr. Robert A. Davis, Geography, Geology & Environm

Dr. Michael E. Detlefsen, Mathematics & Statistics

Ms. Cynthia A. Dillon, Academic Affairs

Dr. Diana Y. Dreyer, English

Dr. Sherry A. Dupont, Elementary Ed/Early Childhood

Dr. Daniel R. Dziubek, Parks and Recreation

Mr. William M. Elliott, Administrative Affairs

Dr. Hans G. Fellner, Physics

Ms. Susan Ferrandiz, Library

Dr. George T. Force, Government & Public Affairs

Dr. Bernard D. Freyberg, Philosophy

Dr. Thomas W. Gaither, Biology

Dr. Stephen P. Glinsky, Modern Languages & Cultures

Dr. Anita G. Gorman, English

Dr. Gary C. Grabner, Mathematics & Statistics

Dr. Anne M. Griffiths, College of Health & Human Services

Ms. Jean B. Hamilton, Physical and Health Education

Dr. Barry R. Hammond, Government & Public Affairs

Dr. Susan E. Hannam, College of Health, Environment & Science

Dr. Kenneth Harris, Theatre

Dr. James T. Hathaway, Geography, Geology & Environm

Dr. Stephen L. Hawk, Music

Mr. Francis J. Hensler, Information Technology

Mrs. Susan L. Herman, Exercise & Rehabilitative Sci

Dr. William L. Herman, Physical and Health Education

Dr. Jay Hertzog, College of Education

Dr. John A. Hicks, Elementary Ed/Early Childhood

Dr. George J. Highland, Physics

Dr. Robert W. Hinds, Geography, Geology & Environm

Dr. Frank M. Hoffman, Biology

Dr. William P. Hotchkiss, Physical and Health Education

Mr. James C. Hughes, Geography, Geology & Environm

Mr. Frank W. Hulick, Healthcare Adm & Info Systems

Dr. Patricia A. Johnson, Secondary Ed/Foundations Ed

Mr. Stanley B. Johnson, Parks and Recreation

Dr. Sharadchandra W. Joshi, Computer Science

Dr. Thomas M. Kandl, Elementary Ed/Early Childhood

Dr. Brian J. Kearney, Physics

Dr. Bradley F. Keith, Physical and Health Education

Dr. Donald S. Kelly, History

Mr. Stanley J. Kendziorski, Allied Health

Dr. Maribeth J. Knaub, Music

Dr. Theodore L. Kneupper, Philosophy

Ms. Akiko Kotani, Art

Dr. Parameswar Krishnakumar, Management & Marketing

Dr. James L. Laux, Communication

Dr. Jeffrey R. Lehman, Secondary Ed/Foundations Ed

Dr. Henry Lenz, Secondary Ed/Foundations Ed

Mrs. Ruth E. Leo, Nursing

Dr. Ann Liedel-Rice, Elementary Ed/Early Childhood

Dr. William F. Lindgren, Mathematics & Statistics

Mr. Fred J. Livingston, Special Education

Dr. Lawrence F. Lowing, Allied Health

Mr. Francis A. Manfredi, Special Education

Dr. Srinivasa B. Mani, Professional Study&Inter Prgms

Mr. Joseph C. Marks, Developmental Programs

Dr. Richard T. Martin, Political Science

Dr. Clair W. McClure, Mathematics & Statistics

Dr. Mary A. McKay, Elementary Ed/Early Childhood

Dr. Joanne L. McKeag, Physical and Health Education

Dr. Barbara M. McNeal, English

Dr. Donald F. Megnin, Political Science

Dr. James E. Mennell, History

Dr. George J. Mihalik, Safety Management

Mr. Carl E. Miller, Information Technology

Dr. Pamela J. Miller, Elementary Ed/Early Childhood

Dr. Catherine V. Morsink, College of Education

Mr. Richard K. Myers, Special Education

Dr. Karin R. Myers-Tillotson, Secondary Ed/Foundations Ed

Dr. Ramona Nelson, Nursing

Dr. John A. Nichols, History

Dr. Abbas Noorbakhsh, School of Business

Mr. Joseph J. Normand, Communication

Dr. Chester T. O'Bannon, Music

Mr. Roger L. Oberlin, Physical and Health Education

Dr. William H. Oman, Philosophy

Dr. Monica F. Ondrusko, Special Education

Dr. Bruce T. Orvis, Management & Marketing

Dr. Nicholas E. Papanikolaou, Chemistry

Dr. Leona C. Parascenzo, Nursing

Dr. Mary A. Paul, Elementary Ed/Early Childhood

Mr. Gary S. Pechar, Exercise & Rehabilitative Sci

Dr. Joyce E. Penrose, Nursing

Dr. William C. Polk, Elementary Ed/Early Childhood

Dr. Charles M. Porter, Counseling & Educational Psychology

Mr. Fred B. Powell, Physical and Health Education

Dr. Carolyn V. Prorok, Geography, Geology & Environm

Dr. Herb F. Reinhard, President

Mr. Charles D. Rice, Elementary Ed/Early Childhood

Mr. Joseph H. Riggs, Communication

Dr. Melinda M. Ristvey, Modern Languages & Cultures

Dr. Carolyn C. Rizza, Geography, Geology & Environm

Dr. Paul F. Rizza, Sociology, Anthropology & Social Work

Mr. F D. Rose, History

Dr. Larry R. Rotge, History

Dr. Bruce W. Russell, College of Business

Mrs. Lucy A. Sack, Dance

Dr. Robert O. Sattler, Special Education

Dr. W G. Sayre, Chemistry

Ms. Claire R. Schmieler, Health Services

Ms. Jane Scott Cleary, Library

Mr. Charles C. Shaw, History

Mr. Robert D. Shrader, Physical and Health Education

Dr. Charles H. Shultz, Geography, Geology & Environm

Dr. Esther R. Skirboll, Sociology, Anthropology and Social Work

Dr. Robert M. Smith, President

Dr. Nanette K. Solomon, Music

Dr. Donald T. Stauffer, Special Education

Ms. Stacey G. Steele, Music

Mr. Terry S. Steele, Music

Dr. Carolyn S. Steglich, Biology

Dr. Laurie A. Stepanian, Theatre

Dr. Thomas D. Stewart, Communication

Dr. Michael L. Stowe, Sociology, Anthropology & Social Work

Dr. Kathleen M. Strickland, College of Education

Dr. Constantine Stroumbakis, Secondary Ed/Foundations Ed

Dr. Wendy L. Stuhldreher, Public Health & Social Work

Dr. Valerie R. Swarts, Communication

Dr. Frederick J. Tannery, School of Business

Dr. David C. Taylor, Chemistry

Dr. Rhoda E. Taylor, Biology

Dr. William R. Taylor, Sociology, Anthropology & Social Work

Dr. Charles Tichy, Modern Languages & Cultures

Mrs. Melba J. Tomeo, Library

Dr. Frank Treccase, Modern Languages & Cultures

Dr. Eva Tsuquiashi-Daddesio, College of Liberal Arts

Dr. Genevieve M. Tvrdik, Biology

Dr. David W. Valentine, School of Business

Dr. Paulette Viola, Parks and Recreation

Mr. Hubert C. Voltz, Mathematics & Statistics

Dr. Raymond V. Wallace, Theatre

Dr. Frances H. Walsh, Elementary Ed/Early Childhood

Dr. Amy R. Walters, Communication

Dr. Albert N. Ward, Geography, Geology & Environm

Dr. Robert J. Watson, Student Affairs

Dr. Gene J. Wilhelm, Sociology, Anthropology & Social Work

Dr. A L. Williams, Elementary Ed/Early Childhood

Dr. William F. Williams, Academic Affairs

Dr. Patricia A. Zimmerman, Physical and Health Education

Dr. Charles A. Zuzak, College of Arts & Sciences

Office of Financial Aid and Scholarships

Office: 107 Maltby

Phone: 724-738-2044

Email: financial.aid@sru.edu

The Office of Financial Aid is responsible for the coordination of sources of financial assistance for undergraduate and graduate students at Slippery Rock University. The majority of financial aid offered through the Office of Financial Aid

is based on the overall financial need of applicants. State, federal and institutional financial aid sources are coordinated through this office. The Office of Financial Aid also provides information about scholarship opportunities. A detailed listing of aid programs is available at The Office of Financial Aid.

- How Do I Apply For Financial Aid?
 - Financial Aid Programs
 - How is Eligibility Determined?
 - What Can Financial Aid Cover?
 - What Is An Expected Family Contribution (EFC)?
 - What Is My Eligibility For Financial Aid?
 - How Do I Receive Financial Aid Funds?
- Academic Progress for Financial Aid
 - Policy on the Return of Title IV Aid
- Financial Aid for the Summer Term
- Study Abroad Programs
- Statement of Rights and Responsibilities
 - Rights
 - Responsibilities
 - Additional Eligibility Criteria
- General Comments
- Veterans Affairs

How Do I Apply For Financial Aid?

The Free Application for Federal Student Aid (FAFSA) must be completed in order to apply for financial aid available for attendance at Slippery Rock University in addition to institutional scholarships that are based in part on financial need. Students are able to complete the FAFSA beginning October 1 of the year preceding the next academic year. It is recommended that the application be completed before May 1. The federal school code for Slippery Rock University is 003327; this code is required on the FAFSA.

Students interested in receiving assistance from federal educational loan programs must complete entrance loan counseling and a master promissory note.

Financial Aid Programs

Financial aid at Slippery Rock University includes grant, scholarship, loan, and employment programs. A detailed list of scholarship opportunities for students is found in the "University Scholarships" section of this catalog and also on the SRU Financial Aid Office webpage. In addition to the brief descriptions of federal financial aid programs below; additional details can be found at www.studentaid.ed.gov and www.sru.edu/finaid.

Federal Pell Grant - Pell Grants are federal funds available to undergraduates with exceptional financial need; the amount of the grant is based on a student's enrollment, cost and financial need. Eligibility is determined based on the results of the Free Application for Federal Student Aid.

Federal Supplemental Educational Opportunity Grant (FSEOG) - FSEOG funds are grant funds available to undergraduate students with a high degree of financial need. Students may be eligible for this grant if they already qualify for the Federal Pell Grant.

The Teacher Education Assistance for College and Higher Education (TEACH) Grant - These grants are designated for academically-eligible students enrolled in specific bachelor's and master's degree programs in SRU's College of

Education who intend to teach in a public or private elementary or secondary school that serves students from low-income families. This program requires a service obligation.

Pennsylvania State Grant - The Pennsylvania Higher Education Assistance Agency (PHEAA) provides grant assistance to eligible Pennsylvania residents. PHEAA Grant funds are awarded to undergraduate students on the basis of financial need. Additional details are available at www.pheaa.org

PHEAA-Administered Scholarships - PHEAA makes available a number of scholarships to Pennsylvania residents. Details about such scholarships are available at www.pheaa.org

Other State Grants - Several states allow their students to use state grant funds to attend colleges outside of their home states. Out-of-state students should contact their state grant agency in their home state for more information on eligibility guidelines.

Student Employment - Part-time student employment at SRU is available through a variety of funding sources. Students employed on campus are paid on a bi-weekly basis and are paid at least minimum wage. Job opportunities are located throughout the campus. Available positions are publicized through the Office of Career Education and Development.

- Federal Work Study (FWS) is based on financial need and may be available to eligible students.
- Some positions are available through community service departments on campus including the SGA Child Care Center, the Institute for Community Service and Learning, the Macoskey Center, the Aebersold Recreation Center and the Women's Center.
- State Student Employment is available to students who do not demonstrate financial need as determined by the FAFSA and is funded by institutional funds.

Federal Direct Loan - This is a long-term, low interest loan that students may elect to use to assist them with their educational expenses. The amount of loan and type of loan available is dependent upon the individual student's costs, resources, year in school, and financial need. A student may qualify for Subsidized or Unsubsidized Stafford Loans, or both.

- Subsidized loans are offered to students who demonstrate financial need; these do not require repayment of principal or interest while the student remains enrolled at least half-time.
- In contrast, unsubsidized loans require either the repayment of interest only (on a quarterly basis) or the capitalization of interest during periods of enrollment.
- The student officially enters repayment of an Unsubsidized or Subsidized Federal Stafford Loan following a grace period after graduation or cessation of at least half-time enrollment. Contact the Office of Financial Aid for further information regarding repayment of Federal Stafford Loans.

Federal PLUS Loans - The PLUS Loan is available to parents of dependent students and to graduate students. Borrowers may access funds up to the cost of education minus any other financial aid.

SRU Scholarships - Institutional scholarships are awarded based upon a variety of criteria. Detailed information about institutional scholarships can be found on the Scholarship webpage at www.sru.edu/scholarships.

Private Sources of Funding - The SRU Financial Aid Office encourages students to seek out assistance from private organizations and agencies. Links to private scholarship database searches can be found on the SRU Scholarship page. Information about non-federal private loans is available at www.sru.edu/loans.

How is Eligibility Determined?

Students qualify for most financial aid based on their financial need. A student's financial need is based on a simple formula:

$$\begin{array}{l} \text{Cost of Attendance} \\ - \text{Expected Family Contribution} \\ = \text{Financial Need} \end{array}$$

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What Can Financial Aid Cover?

The Office of Financial Aid calculates an average cost of attendance for each student based on their program of study and their in-state or out-of-state status. Typically, the cost of attendance consists of costs for tuition, fees, room, board, books, travel and other associated educational costs.

What Is An Expected Family Contribution (EFC)?

The EFC is calculated through the completion of the Free Application for Federal Student Aid. This figure reflects the Federal estimate of what a family and/or student can afford to contribute toward a year of college. Students and families are able to calculate an estimated EFC through the FAFSA4caster available at www.fafsa.ed.gov

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What Is My Eligibility For Financial Aid?

The level of financial need determines the amount of eligibility that a student has for financial aid. It is used by the Office of Financial Aid to determine eligibility for specific programs. An award letter listing eligibility for financial aid is sent to each student after the determination of financial need.

Students or families who experience hardship due to disability, death, decrease in income, loss of benefits, etc., should contact the Office of Financial Aid. A review of their eligibility for financial aid may be performed based on their change in status.

Financial aid applicants may contact the Office of Financial Aid for specific program eligibility criteria.

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How Do I Receive Financial Aid Funds?

The Office of Student Accounts is responsible for disbursing all financial aid with the exception of the Federal Work Study Program under which students are paid on a bi-weekly basis. A student's financial aid, excluding Federal Work Study, is applied directly to contracted university charges (tuition, fees, room and board). Any excess funds will be refunded to the student according to the refund policies set forth by the Office of Student Accounts.

Academic Progress for Financial Aid

The Higher Education Act of 1965 as amended by Congress mandates institutions of higher education to establish minimum standards of "satisfactory progress" for students receiving Federal financial aid. The Satisfactory Academic Progress Policy is viewable on-line at www.sru.edu/finaid.

Financial Aid for the Summer Term

Students may be able to qualify for financial aid for the summer term dependent upon their enrollment status, eligibility for aid, and the availability of financial aid funds. Students are encouraged to contact the Office of Financial Aid in the early spring regarding application procedures for financial aid for the summer term.

Study Abroad Programs

SRU students may be eligible for financial aid funds to attend a study abroad program that is approved by SRU. Financial aid eligibility for study abroad programs is reviewed by individual request. The terms and conditions of the study abroad program have a direct impact upon the student's eligibility for financial aid. Students interested in financial aid for a study abroad program should contact the Office of Financial Aid.

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Policy on the Return of Title IV Aid

The University is required by federal statute to recalculate federal financial aid eligibility for students who withdraw, drop out, are dismissed, or take a leave of absence prior to completing 60% of a payment period or term. The federal Title IV financial aid programs must be recalculated in these situations.

If a student leaves the institution prior to completing 60% of a payment period or term, the office of student accounts recalculates eligibility for Title IV funds. Recalculation is based on the percentage of earned aid using the Federal Return of Title IV funds formula found at www.wru.edu/studentaccounts.

Statement of Rights and Responsibilities

Rights

The student has the right to:

- Be considered for financial aid assistance; be notified of the financial aid decision; and if not awarded financial assistance, to be informed as to the reason for denial.
- Be informed of the financial aid programs available and the required application materials.

Responsibilities

The student is responsible for:

- Submitting the appropriate application forms within published deadline dates.
- Using all refunds of financial aid funds for expenses related to the student's education.

- Following the requirements and repayment schedules of educational loan programs.
- Informing the Office of Financial Aid of all grants, scholarships, or other funds received for their educational costs from outside organizations.

Additional Eligibility Criteria

In order to be considered for financial aid, student applicants must:

- Be a U.S. citizen or eligible non-citizen.
- Be registered with Selective Service (if required).
- Be working toward a degree or teacher certification at SRU.
- Not owe a refund on a federal grant or be in default on a federal educational loan.

General Comments

- Aid programs require that the student make satisfactory academic progress as detailed on the financial aid webpage.
- The financial aid office should be contacted for instructions when a major change in the family's financial condition occurs such as death, disability, retirement, or loss of job.)
- Students and families are encouraged to contact the financial aid office at 724-738-2044 or via e-mail at financial.aid@sru.edu with any questions they have about the financial aid information provided in this catalog.
- The information provided in this section was accurate at the time of publication. Fees, regulations, eligibility requirements, etc. are subject to change.

Veterans Affairs

The financial aid office coordinates all paperwork for veterans or dependents of veterans who are eligible for "Department of Veterans Affairs" educational benefits. Qualified individuals should apply at least eight weeks prior to the first day of classes. An original application for benefits and certified copy of DD214 (discharge paper), or VA form 2384 (Notice of Basic Eligibility), or copy of Kicker contract may be required. The Office of Financial Aid should be contacted for additional information regarding DVA educational benefits and financial aid. Information about military educational benefits is available at www.sru.edu/veterans. This site also provides information about academic support services, admissions and various other departments and services.

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Tuition, Fees, & Financial Policies

Note: The most current information on graduate tuition and fees may be found online at the Office of Student Accounts.

By accepting admission to the Slippery Rock University, the student agrees to pay the fees and charges assessed by the university. Tuition, fees and other charges are subject to change at any time. Students cannot enroll in classes, receive transcripts of coursework taken while at the university, or graduate from the university unless all fees are paid. Past due account balances are submitted to the Attorney General's office for collection. If any account is submitted to a collection agency to assist in collecting the account, the student is responsible for any/all collection costs associated

with this account. Payment of fees can be made in a variety of ways either in full or through installment payment plans (fee involved).

- Tuition Fees & Financial Policies

The University

Click on a link to be taken to the entry below.

- The University
- Vision
- Mission
- Core Values
- Accreditation
- Institutional Assessment
- Location
- Students
- Faculty
- Campus
- Grants and Sponsored Research
- SRU Leadership Development Program
- University Advancement - Alumni Relations

The University

Slippery Rock University of Pennsylvania, one of 14 state-owned institutions that comprise Pennsylvania's State System of Higher Education, has a long tradition of providing quality education to students. Started in 1889 as a teacher education institution, the university developed into a multi-purpose institution with approximately 8,500 students and with approximately 135 programs in the College of Business, College of Education, College of Health, Environment and Science and College of Liberal Arts.

Vision

Slippery Rock University will excel as a caring community of lifelong learners connecting with the world.

Mission

The fundamental educational mission of Slippery Rock University (SRU) is to transform the intellectual, social, physical, and leadership capacities of students in order to prepare them for life and career success. Complementary missions are to engage in scholarly activity and professional service.

SRU is committed to serving a diverse student body and empowering anyone regionally, nationally, and internationally who can benefit from its programs and lifelong learning opportunities. Thereby SRU addresses the educationally-related economic, health, environmental, social, cultural, and recreational needs of the communities served by the university.

In pursuit of SRU's educational purpose, talented faculty and staff provide creative integrated curricula and experiences that are connected to the world in which graduates will work and live. Students are taught using powerful and engaging pedagogies in appropriate learning spaces employing state-of-the-art technology. They study in an open, caring, nurturing, and friendly environment, and live in a safe community with access to high-quality student services. SRU strives to be a best-value institution with an affordable cost and substantial student financial support.

Core Values

Student Success

We value students as the center of all that we do and support a climate that celebrates each person's success. We believe that, as a public regional university, our role is to transform our students to enable them to be economically and socially mobile.

Excellence

We value excellence in teaching, research, scholarship, creative endeavors, student services and in all aspects of the University's operations to ensure institutional effectiveness and efficiency. We value excellent curricula and co-curricular experiences, together with high expectations of our students, in order to stimulate student success.

Intellectual freedom, integrity and free expression

We value and uphold the right of all in our academic community to speak and write freely. We expect all who study, teach and work within the University to uphold the highest ideals of scholarly responsibility. We value honesty, integrity, fairness, and respect in creating, debating and disseminating intellectual and creative works. As such, we believe that all perspectives deserve fair scrutiny in the marketplace of ideas in a civil, fair and thoughtful manner.

Innovation

We value the discovery and application of knowledge in teaching and learning and in developing innovative systems. We believe in offering educational programs that anticipate future needs, teach state-of-the-art competencies and use modern evidence-based pedagogies. We strive to promote and adopt productive cutting-edge curriculum, technology, structures and processes throughout the enterprise.

Diversity, Inclusion and equity

We value a diverse campus community that enriches our students' intellectual and social growth. We strive to build and support a community that fully reflects the rich diversity of the commonwealth. We welcome all qualified individuals to SRU and will work to ensure that our enrollment, employment and advancement processes are open, unhindered and free of barriers. We seek an inclusive campus and equitable outcomes for students and employees alike.

Openness, shared governance and accountability (combines two concepts)

We value shared decision making and promote a campus culture in which information is widely shared, broad participation is encouraged, decision making processes are clear and feedback is valued. We uphold our commitments to shared governance. We value transparency of information and process, collaboration in resolving significant issues of mutual interest and ethical decision-making. We will be publicly accountable for the quality of our work and will seek to steward University resources effectively.

Social Responsibility

We value the importance of fostering citizenship to promote the public good, environmental sustainability, global understanding and informed civic engagement. We will leverage our intellectual and financial resources in order to educate our students and the public about sustainability, global awareness and civic responsibility and operate the University as sustainably as possible.

Accreditation

Slippery Rock University is accredited by the following accrediting agencies:

Institutional Accreditation

Accreditation Association for Ambulatory Health Care, Inc.

International Association of Counseling Services

Middle States Commission on Higher Education

Professional Association of Therapeutic Horsemanship International

College of Health, Environment and Science

Accreditation Association for Ambulatory Health Care, Inc.

Accreditation Board for Engineering and Technology (ABET)

Accreditation Council for Occupational Therapy Education (ACOTE)

The entry-level occupational therapy doctoral degree program at Slippery Rock University has applied for accreditation and has been granted Candidacy Status by the Accreditation Council for Occupational Therapy Education (ACOTE) of the American Occupational Therapy Association (AOTA), located at 4720 Montgomery Lane, Suite 200, Bethesda, MD 20814-3449. ACOTE's telephone number c/o AOTA is (301) 652-AOTA and its Web address is www.acoteonline.org.

Accreditation Commission on Collegiate Nursing Education (CCNE)

Accreditation Review Commission on Education for the Physician Assistant, Inc. (ARC-PA)

Provisional Accreditation as of 03/2016

American Chemical Society

American Physical Therapy Association (APTA)

Commission on Accreditation of Allied Health Education (CAAHEP)

Commission on Accreditation of Athletic Training Education (CAATE)

Council on Social Work Education

College of Education

American Council on the Teaching of Foreign Languages

Council for the Accreditation of Educator Preparation (CAEP)

Pennsylvania Department of Education (PDE)

College of Business

Accreditation Council for Business Schools and Programs (ACBSP)

Commission on Sport Management Accreditation (COSMA)

College of Liberal Arts

National Association of Schools of Art and Design (NASAD)

National Association of Schools of Dance (NASD)

National Association of Schools of Music (NASM)

National Association of Schools of Theatre (NAST)

Institutional Assessment

Assessment is the process through which effective learning is planned and measured by relating degree program goals to actual student performance. We do assessment to improve student learning. The Assessment Core Committee of Slippery Rock University has been working since 1998 to help the University community develop effective assessment processes. The web site reflects the collective efforts of both academic and student life programs to articulate student-learning outcomes and to devise appropriate and effective means of measuring student achievement.

For more information on assessment: [Planning, Resource Management and Assessment](#)

Location

SRU's campus is located in Slippery Rock, a borough in northern Butler County, Pennsylvania, that is a safe and friendly community of approximately 3,500 residents. SRU is less than an hour's drive north of Pittsburgh, one hour south of Erie and 45 minutes east of Youngstown, Ohio. Two major interstate highways, I-79 and I-80, intersect seven miles from the University, making the campus easily accessible.

Students

Three quarters of Slippery Rock University's more than 8,800 students are from western Pennsylvania, with Pittsburgh and other cities in Allegheny County providing the largest number of students. Another 13 percent of students come from central and eastern Pennsylvania. The remaining 11 percent are out-of-state students, as students from 46 states and 35 countries are represented among the student body.

Faculty

The approximately 464 full- and part-time faculty members at Slippery Rock University are teachers, scholars and contributors to the University and community. The typical faculty member teaches four undergraduate courses each semester, engages in scholarly research and creative endeavors and participates in a variety of decision-making processes. Of the current full-time or tenure-track faculty, 49 percent are male and 51 percent are female and 19 percent are members of ethnic groups. In addition, 85 percent of all full-time faculty are tenured or occupy tenure-track positions, and 92 percent of full-time tenure or tenure-track faculty have earned a doctoral or other terminal degree.

Campus

Slippery Rock University's gorgeous 660-acre campus is located in the rolling countryside of western Pennsylvania. More than 30 major buildings and 64 total facilities blend traditional and modern architecture, providing an optimal living and learning environment.

Bailey Library ranks as one of the most comprehensive public or private university libraries in Pennsylvania. The library website and online catalog allows easy searching of more than 400,000 print volumes in the library's collection, as well as many other resources including approximately 76,000 online journals, magazines, newspapers and other electronic resources. Print and electronic materials at the other Pennsylvania's State System university libraries, as well as the collections of thousands of libraries nationwide, are accessible through interlibrary loan.

Other facilities include, Swope Music Hall, designed as both a performing and learning center; Vincent Science Hall, with laboratories, classrooms and a greenhouse; and Morrow Field House, an instructional and recreational facility that houses a gymnasium, swimming pool, handball court, dance studio, tennis court and track. McKay Education, Spotts World Cultures and Eisenberg Classroom Building are examples of standard educational facilities that have small and large classrooms, auditoria and other specialized classrooms.

Buildings erected since 2001 include the Physical Therapy, housing the Graduate School of Physical Therapy, and the Advanced Technology and Science Hall, which houses the Computer Science; Chemistry; and Geography, Geology and the Environment departments. Recent renovations include the Strain Safety Building, which underwent a \$6.5 million upgrade in 2018. The University opened the Harrisville Building in 2016 in nearby Harrisville, Pennsylvania, to house the physician assistant and occupational therapy programs.

Students reside in eight on-campus residence halls; six new buildings house students on the lower end of campus and two traditional halls are located on the upper end of campus. Additionally, upper class students can reside at the ROCK apartments, an eight-building complex with 188 beds. Privately owned residence halls, apartments and other types of living accommodations are available off-campus.

There are two dining halls, Weisenfluh and Boozel, as well as the 107,000-square-foot Smith Student Center that includes dining options like Starbucks and Quaker Steak and Lube, as well as a ballroom, theatre, book store, conference rooms, a PNC Bank and other offices and amenities.

Grants and Sponsored Research

Office: Old Main

Phone: 724-738-2045

Email: grantsoffice@sru.edu

Director

Nancy L. Cruikshank, CRA

Research and scholarship are central features of any academic environment. At Slippery Rock University, faculty and students are active in a wide range of internally and externally funded projects that support the research, teaching and public service missions of the university. The Office of Grants, Research and Sponsored Programs (GRASP) is responsible for assisting faculty in the acquisition of external funding for scholarship, research, and other projects; representing the university in pre-award and award transactions with funding sponsors; acting as a liaison between project directors, sponsors, administration, and external groups; and assisting with post-award administration of grants and contracts to assure compliance with federal, state, and university directives. The office also provides the

administrative oversight to the Institutional Review Board (IRB) for ethical implementation of research projects involving human subjects and the Institutional Animal Care and Use Committee (IACUC) to ensure that the animal housing, care, and use in research labs meets federal standards and guidelines.

The Center for Student Research, Scholarship and Creative Achievement (URSCA) supports and promotes high-quality student/faculty collaborative research, scholarship and creative activity. The Center's mission is to create a community of leaders by facilitating the exchange of ideas, to provide a collegial venue that prepares students for further scholarly exploration and professional careers, and to promote scholarly inquiry as a fundamental value of the SRU experience. A Symposium for Student Research, Scholarship and Creative Achievements is held annually to highlight the research, creative and scholarly endeavors of undergraduate and graduate students. The campus-wide event encompasses poster sessions, oral presentations, exhibits and performances that showcase the work of projects conducted throughout the academic year.

SRU Leadership Development Program

Leadership Development Center

Office: 302 North Road
Slippery Rock, PA 16057

Phone: 724-738-4334

Director

Erin Strain
erin.strain@sru.edu

SRU's Leadership Development Center (LDC) provides exceptional programs that engage students, faculty, staff, and community members through experiential learning opportunities. The staff at the LDC is comprised of both professional and student workers who bring a variety of expertise, knowledge, and diversity to our team. Programming at the LDC includes experience-based academic labs, student engagement, leadership & professional development workshops, and staff retreats, just to name a few! Each of these experiences is unique and customized for the groups we serve.

Our programming is complemented by our facilities: a 2,200 sq. ft. training center, a military designed leadership reaction course, a wooded leadership trail, and a 35' climbing tower and challenge course - with a zip line! As a resource to the entire campus and the greater Slippery Rock community, the LDC is here for your group. Lodging is also available in the summer.

University Advancement - Alumni Engagement

Office: Russell Wright Alumni House
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Email: alumni@sru.edu

Director

Kelly Bailey

Assistant Director

Tracy Allison

Secretary

Lisa Luntz

Slippery Rock University has more than 69,000 graduates living throughout the country. Alumni are encouraged to join the Slippery Rock University Alumni Association, a separately incorporated organization that is devoted to serving the university and its alumni.

The Slippery Rock University Alumni Association hosts several events in the region and across the country to engage alumni. A variety of benefits are associated with membership to the association, including discounts on insurance, partnerships with national travel partners and savings at campus entities including the SGA bookstore. Significantly, the Alumni Association manages and awards eighteen scholarships. Seventeen of the scholarships, the Past Presidents' Scholarship, the Nancy Angell Scholarship, the Madeline F. Stoops Scholarship, the Hallie Dugan Smith Scholarship, the Eisaman Alumni Scholarship for sophomore students, the Maree McKay/ Esther Smiley Scholarships, the Carl and Norma Laughner Scholarship, the Maggie Meise Fellowship, the Watson Family Scholarship, Jeanne Powell Furrie Scholarships, the Anna Brua Williams Scholarships for women elementary education majors, Alumni Association Scholarship, and the Addison Scholarships are for academic excellence. The N. Kerr Thompson Scholarship is for student athletes.

The association also sponsors Homecoming as well as special events throughout the year. Additional information on the Alumni Association as well as upcoming events can be found on the alumni web site at www.rockalumni.com or at www.sru.edu and then clicking on Alumni.