CHEMISTRY, BACHELOR OF SCIENCE (BS) -CONCENTRATION IN FORENSIC CHEMISTRY

The Slippery Rock University Chemistry Degree is certified by the American Chemistry Society or ACS. In order to earn ACS certification, students must complete 2 credits of Independent Study and 1 credit of Research in addition to the BS requirements. Students can also choose an option concentration in order to broaden their background in chemistry or to gain additional experience if they wish to pursue other interests.

Concentrations are available in the following areas:

- Biochemistry
- · Computational Chemistry
- Education
- · Environmental Chemistry
- · Forensic Chemistry
- · Health Sciences

Program Learning Outcomes

- Students will demonstrate knowledge of the main disciplines of chemistry, namely Organic, Analytical, Biological, Physical, and Inorganic chemistry.
- Students will demonstrate development of technical skills for practical applications of chemistry.
- Students will present collected experimental data in written and oral reports.
- Students and faculty will participate in faculty-led research projects.
 Students are expected to be actively working in the laboratory under the supervision and guidance of a faculty mentor.

Related Links

Chemistry - Forensic Chemistry, BS Program Page (https://www.sru.edu/academics/majors-and-minors/chemistry-forensic-chemistry/)

Professional Licensure/Certification Page (https://www.sru.edu/students/student-consumer-information/professional-licensures/)

Curriculum Guide GPA Requirement

Major GPA: 2.0 or higher Overall GPA: 2.0 or higher

Summary*

Code	Title	Hours
Rock Studies	2 Requirements	45
Other Basic R	equirements	0-3
Major Require	ements	54
Natural Scien	ce and Math College Wide Requirement	12
Forensic Cher	mistry Concentration	20

ACS Certification - Optional	0-3
Electives	1

* All undergraduate degree programs require a minimum of 120 credits. Some courses meet multiple requirements, but are only counted once toward the 120 credit total required to graduate.

Rock Studies 2 Requirements

ENGL 102 Critical Writing ENGL 104 Critical Reading MATH 225 Calculus I Select one of the following: COMM 200 Civil Discourse: Theory & Practice PHIL 110 Ethics and Civil Discourse POLS 235 Civil Discourse and Democracy Subtotal Integrated Inquiry Creative and Aesthetic Inquiry Select 3 Credits (https://catalog.sru.edu/undergraduate/rock-studies/rock-studies-program/) Humanities Inquiry Select 3 Credits (https://catalog.sru.edu/undergraduate/rock-studies/rock-studies-program/) Social Science Inquiry Select 3 Credits (https://catalog.sru.edu/undergraduate/rock-studies/rock-studies-program/) Natural Sciences Inquiry CHEM 107 General Chemistry I & CHEM 107 General Chemistry I & CHEM 111 and General Chemistry I Lab 2,3 Physical Sciences Inquiry PHYS 216 University Physics 1 with Lab 2,3 Subtotal Thematic Thread Select 12 Credits (https://catalog.sru.edu/undergraduate/rock-studies/rock-studies-program/) 4	Code	Title	Hours
ENGL 102 Critical Writing ENGL 104 Critical Reading MATH 225 Calculus I Select one of the following: COMM 200 Civil Discourse: Theory & Practice PHIL 110 Ethics and Civil Discourse POLS 235 Civil Discourse and Democracy Subtotal Integrated Inquiry Creative and Aesthetic Inquiry Select 3 Credits (https://catalog.sru.edu/undergraduate/rock-studies/rock-studies-program/) Humanities Inquiry Select 3 Credits (https://catalog.sru.edu/undergraduate/rock-studies/rock-studies-program/) Social Science Inquiry Select 3 Credits (https://catalog.sru.edu/undergraduate/rock-studies/rock-studies-program/) Natural Sciences Inquiry CHEM 107 General Chemistry I & CHEM 111 and General Chemistry I Lab 2,3 Physical Sciences Inquiry PHYS 216 University Physics 1 with Lab 2,3 Subtotal Thematic Thread Select 12 Credits (https://catalog.sru.edu/undergraduate/rock-studies/rock-studies-program/) 4	The Rock		
ENGL 104 Critical Reading MATH 225 Calculus I Select one of the following: COMM 200 Civil Discourse: Theory & Practice PHIL 110 Ethics and Civil Discourse POLS 235 Civil Discourse and Democracy Subtotal Integrated Inquiry Creative and Aesthetic Inquiry Select 3 Credits (https://catalog.sru.edu/undergraduate/rock-studies/rock-studies-program/) Humanities Inquiry Select 3 Credits (https://catalog.sru.edu/undergraduate/rock-studies/rock-studies-program/) Social Science Inquiry Select 3 Credits (https://catalog.sru.edu/undergraduate/rock-studies/rock-studies-program/) Nocial Science Inquiry Select 3 Credits (https://catalog.sru.edu/undergraduate/rock-studies/rock-studies-program/) Natural Sciences Inquiry CHEM 107 General Chemistry I & CHEM 111 and General Chemistry I Lab 2,3 Physical Sciences Inquiry PHYS 216 University Physics 1 with Lab 2,3 Subtotal Thematic Thread Select 12 Credits (https://catalog.sru.edu/undergraduate/rock-studies/rock-studies-program/) 4	SUBJ 139	Foundations of Academic Discovery ¹	3
Select one of the following: COMM 200 Civil Discourse: Theory & Practice PHIL 110 Ethics and Civil Discourse POLS 235 Civil Discourse and Democracy Subtotal Integrated Inquiry Creative and Aesthetic Inquiry Select 3 Credits (https://catalog.sru.edu/undergraduate/rock-studies/rock-studies-program/) Humanities Inquiry Select 3 Credits (https://catalog.sru.edu/undergraduate/rock-studies/rock-studies-program/) Social Science Inquiry Select 3 Credits (https://catalog.sru.edu/undergraduate/rock-studies/rock-studies-program/) Social Science Inquiry Select 3 Credits (https://catalog.sru.edu/undergraduate/rock-studies/rock-studies-program/) Natural Sciences Inquiry CHEM 107 General Chemistry I & CHEM 111 and General Chemistry I Lab ^{2,3} Physical Sciences Inquiry PHYS 216 University Physics 1 with Lab ^{2,3} Subtotal Thematic Thread Select 12 Credits (https://catalog.sru.edu/undergraduate/rock-studies/rock-studies-program/) ⁴	ENGL 102	Critical Writing	3
Select one of the following: COMM 200 Civil Discourse: Theory & Practice PHIL 110 Ethics and Civil Discourse POLS 235 Civil Discourse and Democracy Subtotal Integrated Inquiry Creative and Aesthetic Inquiry Select 3 Credits (https://catalog.sru.edu/undergraduate/rock-studies/rock-studies-program/) Humanities Inquiry Select 3 Credits (https://catalog.sru.edu/undergraduate/rock-studies/rock-studies-program/) Social Science Inquiry Select 3 Credits (https://catalog.sru.edu/undergraduate/rock-studies/rock-studies-program/) Natural Sciences Inquiry CHEM 107 General Chemistry I & CHEM 111 and General Chemistry I Lab ^{2,3} Physical Sciences Inquiry PHYS 216 University Physics 1 with Lab ^{2,3} Subtotal Thematic Thread Select 12 Credits (https://catalog.sru.edu/undergraduate/rock-studies/rock-studies-program/) ⁴	ENGL 104	Critical Reading	3
COMM 200 Civil Discourse: Theory & Practice PHIL 110 Ethics and Civil Discourse POLS 235 Civil Discourse and Democracy Subtotal Integrated Inquiry Creative and Aesthetic Inquiry Select 3 Credits (https://catalog.sru.edu/undergraduate/rock-studies/rock-studies-program/) Humanities Inquiry Select 3 Credits (https://catalog.sru.edu/undergraduate/rock-studies/rock-studies-program/) Social Science Inquiry Select 3 Credits (https://catalog.sru.edu/undergraduate/rock-studies/rock-studies-program/) Natural Sciences Inquiry CHEM 107 General Chemistry I & CHEM 111 and General Chemistry I Lab ^{2,3} Physical Sciences Inquiry PHYS 216 University Physics 1 with Lab ^{2,3} Subtotal Thematic Thread Select 12 Credits (https://catalog.sru.edu/undergraduate/rock-studies/rock-studies-program/) ⁴	MATH 225	Calculus I	4
PHIL 110 Ethics and Civil Discourse POLS 235 Civil Discourse and Democracy Subtotal Integrated Inquiry Creative and Aesthetic Inquiry Select 3 Credits (https://catalog.sru.edu/undergraduate/rock-studies/rock-studies-program/) Humanities Inquiry Select 3 Credits (https://catalog.sru.edu/undergraduate/rock-studies/rock-studies-program/) Social Science Inquiry Select 3 Credits (https://catalog.sru.edu/undergraduate/rock-studies/rock-studies-program/) Natural Sciences Inquiry CHEM 107 General Chemistry I & CHEM 111 and General Chemistry I Lab 2,3 Physical Sciences Inquiry PHYS 216 University Physics 1 with Lab 2,3 Subtotal Thematic Thread Select 12 Credits (https://catalog.sru.edu/undergraduate/rock-studies/rock-studies-program/) 4	Select one of the	following:	3
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Select 3 Credits (https://catalog.sru.edu/undergraduate/rock-studies/rock-studies-program/) Humanities Inquiry Select 3 Credits (https://catalog.sru.edu/undergraduate/rock-studies/rock-studies-program/) Social Science Inquiry Select 3 Credits (https://catalog.sru.edu/undergraduate/rock-studies/rock-studies-program/) Natural Sciences Inquiry CHEM 107 General Chemistry I & CHEM 111 and General Chemistry I Lab ^{2,3} Physical Sciences Inquiry PHYS 216 University Physics 1 with Lab ^{2,3} Subtotal Thematic Thread Select 12 Credits (https://catalog.sru.edu/undergraduate/rock-studies/rock-studies-program/) ⁴	Integrated Inquir	у	
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CHEM 107 General Chemistry I & CHEM 111 and General Chemistry I Lab ^{2,3} Physical Sciences Inquiry PHYS 216 University Physics 1 with Lab ^{2,3} Subtotal Thematic Thread Select 12 Credits (https://catalog.sru.edu/undergraduate/rock-studies/rock-studies-program/) ⁴	,	•	3
& CHEM 111 and General Chemistry I Lab ^{2,3} Physical Sciences Inquiry PHYS 216 University Physics 1 with Lab ^{2,3} Subtotal Thematic Thread Select 12 Credits (https://catalog.sru.edu/undergraduate/rock-studies/rock-studies-program/) ⁴	Natural Sciences I	Inquiry	
PHYS 216 University Physics 1 with Lab ^{2,3} Subtotal Thematic Thread Select 12 Credits (https://catalog.sru.edu/undergraduate/rock-studies/rock-studies-program/) ⁴			4
Subtotal Thematic Thread Select 12 Credits (https://catalog.sru.edu/undergraduate/rock-studies/rock-studies-program/) 4	Physical Sciences	Inquiry	
Subtotal Thematic Thread Select 12 Credits (https://catalog.sru.edu/undergraduate/rock-studies/rock-studies-program/) 4	PHYS 216	University Physics 1 with Lab ^{2,3}	4
Select 12 Credits (https://catalog.sru.edu/undergraduate/rock- studies/rock-studies-program/) ⁴	Subtotal		17
studies/rock-studies-program/) ⁴	Thematic Thread		
			12
Total Hours	Total Hours		45

Course offered in multiple subjects; cannot take in first major subject

Course can be counted as a Rock Studies 2 Requirement, but earns credit only once toward your 120-credits total.

One course from each category; six credits must be 300-level or above; no more than 4 credits from one subject area; specific courses required in first major, regardless of prefix of course, cannot be used to satisfy thread requirements; any course with same prefix as first major cannot be used to satisfy thread requirements, even if it is not a course in the first major.

Basic Math Requirement

Check with your adviser 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.

² Course counts for 50% of Major requirements and Major GPA

Code	Title	Hours
Complete one of	f the following:	0-3
Meet required	d minimum SAT or ACT math score OR	
ESAP 110	Beginning Algebra	
Total Hours		0-3

DIVERSITY, EQUITY, AND INCLUSION REQUIREMENT

Students must take and pass a course with the Diversity, Equity, and Inclusion (DEI) designation prior to graduation. Students can meet this requirement by taking any DEI - designated course in any program at any time during their undergraduate career.

Major/Concentration Requirements

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

Code	Title	Haura
	etory Chemistry Courses	Hours
CHEM 108	General Chemistry II	3
CHEM 112	General Chemistry II Lab ¹	1
Subtotal	General Chemistry II Lab	4
	ion Chemistry Courses	4
CHEM 201	Organic Chemistry I	3
CHEM 211	Organic Chemistry I	1
CHEM 301	Physical Chemistry 1 1	3
CHEM 301	Physical Chemistry Laboratory I ¹	1
CHEM 321 CHEM 335	Biochemistry I	3
CHEM 335 CHEM 336	Biochemistry Laboratory I ¹	
		1
CHEM 350	Analytical Chemistry 1	3
CHEM 351	Analytical Chemistry Lab	1
CHEM 442	Inorganic Chemistry 1	3
CHEM 452	Physical Inorganic Chemistry Laboratory ¹	1
Subtotal		20
	n Chemistry Courses	
CHEM 202	Organic Chemistry II ¹	3
CHEM 212	Organic Chemistry Laboratory II	1
CHEM 302	Physical Chemistry II	3
CHEM 425	Instrumental Analysis ¹	3
CHEM 426	Instrumental Analysis Laboratory ¹	1
CHEM 460	Materials Chemistry ¹	3
Subtotal		14
Additional Require	ed In-Depth Chemistry Courses	
Select one lecture	and one laboratory course:	4
CHEM 337	Biochemistry II ¹	
CHEM 338	Biochemistry Laboratory II	
CHEM 340	Air Quality Assessment ¹	
CHEM 370	Water Quality Assessment ¹	
CHEM 415	Forensic Analysis ¹	
CHEM 416	Forensic Analysis Lab ¹	
CHEM 475	Advanced Organic Synthesis ¹	
Subtotal		4
Cognate Courses		
BIOL 114	Biology II: Foundations of Molecules, Genes and Cells with Lab ¹	4

	54
	12
Calculus II ¹	4
University Physics 2 with Lab ¹	4

¹ Course counts for 50% of Major requirements and Major GPA

Natural Science and Math College-Wide Requirement

Code	Title	Hours
CHEM 107	General Chemistry I ^{1,2}	3
CHEM 111	General Chemistry I Lab ^{1,2}	1
MATH 225	Calculus I ^{1,2}	4
PHYS 216	University Physics 1 with Lab ^{1,2}	4
Total Hours		12

Course counts for 50% of Major requirements and Major GPA

Forensic Chemistry Concentration

Code	Title	Hours
Required Courses		
CHEM 204	Introduction to Forensic Science ¹	3
CHEM 415	Forensic Analysis ¹	3
CHEM 416	Forensic Analysis Lab ¹	1
BIOL 250	Genetics with Lab ¹	4
BIOL 370	Molecular Biology ¹	3
CRIM 110	Introduction to Criminology & Criminal Justice Systems ¹	3
Subtotal		17
Electives		
Department of Chem course be taken:	istry strongly recommends that the following	
CRIM 343	Criminal Investigations	3
Subtotal		3
Total Hours		20

Course counts for 50% of Major requirements and Major GPA

ACS Certification – Optional

Code	Title	Hours
CHEM 490	Independent Study ¹	2
CHEM 496	Research ¹	1
Total Hours		3

¹ Course counts for 50% of Major requirements and Major GPA

Co-curricular and Experiential Learning

Students are encouraged to explore additional curricular and co-curricular opportunities. There is a strong correlation between long-term student

^{*} Some courses may require pre-requisites. Please see course descriptions to determine if there are any pre-requisites for that specific course.

Course can be counted as a Rock Studies 2 Requirement, but earns credit only once toward your 120-credits total.

success and participation in the following types of programs and activities:

- High-Impact Practice (HIP) designated classes (e.g., Organic Chemistry II Lab)
- 2. Student-faculty research
- 3. Student leadership development (Chemistry Club)
- 4. Career education and development
- 5. Internships
- 6. Student teaching (serve as Lab Assistants and tutors)
- 7. Volunteering

Important Curriculum Guide Notes

This Curriculum Guide is provided to help SRU students and prospective students better understand their intended major curriculum. Enrolled SRU students should note that the My Rock Audit may place already-earned and/or in progress courses in different, yet valid, curriculum categories. Enrolled SRU students should use the My Rock Audit Report and materials and information provided by their faculty advisers to ensure accurate progress towards degree completion. The information on this guide is current as of the date listed. Students are responsible for curriculum requirements at the time of enrollment at the University.

PASSHE - Pennsylvania State System of Higher Education Institutions

Houre

CHEMISTRY - BS (6118)
Concentration in Forensic Chemistry (FORE)
This program is effective as of Summer 2022
Revised 07.16.2024
UCC 03.22.2022

Recommended Four-Year Plan

Course	litle	Hours
First Year		
Fall		
CHEM 107 & CHEM 111	General Chemistry I and General Chemistry I Lab	4
BIOL 114	Biology II: Foundations of Molecules, Genes and Cells with Lab	4
ENGL 102	Critical Writing	3
ESAP 101	FYRST Seminar *	1
Select one of the follo	wing:	3-4
MATH 120	Intermediate Algebra (if necessary)	
MATH 125	Precalculus (if necessary)	
MATH 225	Calculus I (if necessary)	
MATH 230	Calculus II	
	Hours	15-16
Spring		
CHEM 108 & CHEM 112	General Chemistry II and General Chemistry II Lab	4
CHEM 204	Introduction to Forensic Science	3
BIOL 250	Genetics with Lab	4
Select one of the follo	wing:	4
MATH 125	Precalculus (if necessary)	
MATH 225	Calculus I (if necessary)	
MATH 230	Calculus II	

SUBJ 139	Foundations of Academic Discovery ¹	3
	Hours	18
Second Year		
Fall		
CHEM 201	Organic Chemistry I	4
& CHEM 211	and Organic Chemistry Laboratory I	
ENGL 104	Critical Reading	3
PHYS 216	University Physics 1 with Lab	4
Select one of the fo	•	4
MATH 225	Calculus I (if necessary)	
MATH 230	Calculus II	
	Hours	15
Spring		
CHEM 202	Organic Chemistry II	4
& CHEM 212	and Organic Chemistry Laboratory II	
CRIM 110	Introduction to Criminology & Criminal	3
MATHOOO	Justice Systems	4
MATH 230	Calculus II	4
PHYS 217	University Physics 2 with Lab	4
Select one of the fo	_	3
COMM 200	Civil Discourse: Theory & Practice	
PHIL 110	Ethics and Civil Discourse	
POLS 235	Civil Discourse and Democracy	
	Hours	18
Third Year		
Fall		
Select one of the fo	ollowing:	7-8
In even years, se		
CHEM 335	Biochemistry I	
& CHEM 336	and Biochemistry Laboratory I	
CHEM 442	Inorganic Chemistry	
In odd years, se		
CHEM 301	Physical Chemistry 1	
& CHEM 321	and Physical Chemistry Laboratory I	
CHEM 350 & CHEM 351	Analytical Chemistry	
BIOL 370	and Analytical Chemistry Lab Molecular Biology	3
	ective Course (https://catalog.sru.edu/	3
	:k-studies/rock-studies-program/)	3
Inquiry/Thread/Ele	ctive Course (https://catalog.sru.edu/	3
	k-studies/rock-studies-program/)	
	Hours	16-17
Spring		
Select one of the fo	ollowing:	11
In odd years, se	lect:	
CHEM 442	Inorganic Chemistry	
CHEM 460	Materials Chemistry	
	Elective Course (https://catalog.sru.edu/	
	rock-studies/rock-studies-program/)	
Inquiry/Thread/	Elective Course (https://catalog.sru.edu/ rock-studies/rock-studies-program/)	
In even years, se		
CHEM 302	Physical Chemistry II	
	•	

Chemistry, Bachelor of Science (BS) - Concentration in Forensic Chemistry

Forensic Analysis

CHEM 415

СНЕМ 415 & CHEM 416	and Forensic Analysis Lab	
CHEM 425	Instrumental Analysis	
& CHEM 426	and Instrumental Analysis Laboratory	
	ive Course (https://catalog.sru.edu/ studies/rock-studies-program/)	3
	ive Course (https://catalog.sru.edu/	3
undergraduate/rock-s	studies/rock-studies-program/)	
Front Von	Hours	17
Fourth Year Fall		
Select one of the following: 7-8		
In even years, sele		
CHEM 335 & CHEM 336	Biochemistry I and Biochemistry Laboratory I	
CHEM 442	Inorganic Chemistry	
In odd years, select:		
CHEM 301 & CHEM 321	Physical Chemistry 1 and Physical Chemistry Laboratory I	
CHEM 350 & CHEM 351	Analytical Chemistry and Analytical Chemistry Lab	
Inquiry/Thread/Elective Course (https://catalog.sru.edu/ undergraduate/rock-studies/rock-studies-program/)		3
-	ive Course (https://catalog.sru.edu/	3
undergraduate/rock-s	studies/rock-studies-program/)	
Inquiry/Thread/Elective Course (https://catalog.sru.edu/ undergraduate/rock-studies/rock-studies-program/)		3
	Hours	16-17
Spring		
Select one of the following:		10-11
In odd years, select:		
CHEM 452	Physical Inorganic Chemistry Laboratory	
CHEM 460	Materials Chemistry	
	ective Course (https://catalog.sru.edu/ ck-studies/rock-studies-program/)	
Inquiry/Thread/Elective Course (https://catalog.sru.edu/ undergraduate/rock-studies/rock-studies-program/)		
In even years, select:		
CHEM 302	Physical Chemistry II	
CHEM 415 & CHEM 416	Forensic Analysis and Forensic Analysis Lab	
CHEM 425 & CHEM 426	Instrumental Analysis and Instrumental Analysis Laboratory	
Inquiry/Thread/Elective Course (https://catalog.sru.edu/ undergraduate/rock-studies/rock-studies-program/)		3
Inquiry/Thread/Elective Course (https://catalog.sru.edu/ undergraduate/rock-studies/rock-studies-program/)		3
andergraduate/100k-s	Hours	16-17
	—	

^{**} This document is meant to serve as a guide. Some planners may show more than 120 credits because faculty have created flexibility in choosing courses. However, only 120 credits are required to obtain a degree. Please consult with your academic adviser and refer to your curriculum guide prior to registering for courses. This plan should be reviewed, and verified, by you and your academic adviser at least once each academic year.

Major Code: 6118

Concentration Code: FORE Revised date: 07.10.2023

131-135

Total Hours**

Course offered in multiple subjects; cannot take course in first major subject

^{*} Students are encouraged to takeESAP 101 as a Free Elective.