MATHEMATICS, BACHELOR OF SCIENCE (BS) - CONCENTRATION IN SECONDARY EDUCATION

Curriculum Guide GPA Requirement

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

Summary*

Code	Title	Hours
Rock Studies 2 Requ	irements	44
Basic Math Requirem	nent	0-3
Computer Competen	су	0-3
Major Requirements		60
Natural Science & Ma in Rock Studies 2	ath College-Wide Requirements not included	4
Electives		12

^{*} 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

Code	Title	Hours
The Rock		
SUBJ 139	Foundations of Academic Discovery ¹	3
ENGL 102	Critical Writing	3
ENGL 104	Critical Reading	3
STAT 152	Elementary Statistics I	3
Select one of the fo	llowing:	3
COMM 200	Civil Discourse: Theory & Practice	
PHIL 110	Ethics and Civil Discourse	
POLS 235	Civil Discourse and Democracy	
Subtotal		15
Integrated Inquiry		
Creative and Aesthet	ic Inquiry	
•	ps://catalog.sru.edu/undergraduate/rock-	3
studies/rock-studie	s-program/)	
Humanities Inquiry		0
studies/rock-studie	ps://catalog.sru.edu/undergraduate/rock- s-program/)	3
Social Science Inquiry		
Select 3 Credits (https://catalog.sru.edu/undergraduate/rock- studies/rock-studies-program/)		
Natural Sciences Inquiry		
CHEM 107 & CHEM 111	General Chemistry I and General Chemistry I Lab	4
Physical Sciences Inquiry		
PHYS 216	University Physics 1 with Lab	4

Total Hours	44
Select 12 Credits (https://catalog.sru.edu/undergraduate/rock-studies/rock-studies-program/) ²	12
Thematic Thread	
Subtotal	17

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

Code	Title	Hours
Complete one	0-3	
Meet require	ed minimum SAT or ACT math score OR	
ESAP 110	Beginning Algebra	
Total Hours		0-3

Computer Competency

Code	Title	Hours		
Demonstrate "computer competency" by one of the following:				
Pass Computer	Competency Exam OR			
Select one of the institution:	e following at SRU or another post-secondary			
CPSC 100	Introduction to Computing for Liberal Arts			
CPSC 110	Computer Concepts			
CPSC 130	Introduction to Computing and Programming			
PE 202	Technology for Wellness			
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 Requirements

- 30 major credits must be taken at SRU or PASSHE
- 30 major credits must be taken at the 300 level or above
- 12 math/statistics credits must be taken at the 300-400 level at SRU

Code	Title	Hours
Mathematics Co	re Courses	
MATH 131	Discrete Mathematics ^{1,2}	3
MATH 230	Calculus II ^{1,2}	4
MATH 231	Calculus III ¹	4
MATH 232	Linear Algebra ¹	3

MATH 235	Foundations of Mathematical Proof ^{1,2}	3
MATH 313	Introductory Analysis I ¹	3
STAT 352	Mathematical Statistics I 1	3
Subtotal		23
Secondary Education	on Required Courses	
MATH 301	Differential Equations I ¹	3
MATH 304	Geometric Structures ¹	3
MATH 320	Theory of Numbers ¹	3
MATH 325	Abstract Algebra I ¹	3
MATH 314	Introductory Analysis II ¹	3
or MATH 326	Abstract Algebra II	
MATH 491	Mathematics Seminar ¹	1
SPED 121	Overview of Special Education	3
SEFE 338	Standards-Based Instruction & Assessment in the Inclusionary Classroom	3
Subtotal		22
Required Upper-Lev	vel MATH/STAT Courses	
	Il MATH or STAT credits (at least 3 credits above), excluding MATH 210, MATH 225,	6
MATH 310 and STA	xT 350. ¹	
MATH 310 and STA Required Concentra	AT 350. ¹ ation Courses	
MATH 310 and STA Required Concentra Choose 9 additiona	xT 350. ¹	9
MATH 310 and STA Required Concentra Choose 9 additiona	AT 350. ¹ ation Courses	9
MATH 310 and STA Required Concentra Choose 9 additiona level) from:	AT 350. ¹ ation Courses Il credits (at least 3 credits at the 300-400	9
MATH 310 and STA Required Concentra Choose 9 additiona level) from: STAT 124	AT 350. 1 Ation Courses Il credits (at least 3 credits at the 300-400 Introduction to Survey Methods Introduction to Education, Teaching	9
MATH 310 and STA Required Concentra Choose 9 additiona level) from: STAT 124 SEFE 200	AT 350. 1 Ation Courses Il credits (at least 3 credits at the 300-400 Introduction to Survey Methods Introduction to Education, Teaching Methods and Field Production and Utilization of Instructional	9
MATH 310 and STA Required Concentra Choose 9 additiona level) from: STAT 124 SEFE 200 SEFE 230	ation Courses Il credits (at least 3 credits at the 300-400 Introduction to Survey Methods Introduction to Education, Teaching Methods and Field Production and Utilization of Instructional Technology	9
MATH 310 and STA Required Concentra Choose 9 additiona level) from: STAT 124 SEFE 200 SEFE 230 SEFE 245	AT 350. 1 Pation Courses Il credits (at least 3 credits at the 300-400 Introduction to Survey Methods Introduction to Education, Teaching Methods and Field Production and Utilization of Instructional Technology Middle Level Learning Theory	9
MATH 310 and STA Required Concentra Choose 9 additiona level) from: STAT 124 SEFE 200 SEFE 230 SEFE 245 SEFE 250	AT 350. 1 Ation Courses Il credits (at least 3 credits at the 300-400 Introduction to Survey Methods Introduction to Education, Teaching Methods and Field Production and Utilization of Instructional Technology Middle Level Learning Theory Pre, Early, & Adolescent Development	9
MATH 310 and STA Required Concentra Choose 9 additiona level) from: STAT 124 SEFE 200 SEFE 230 SEFE 245 SEFE 250 SEFE 300	AT 350. 1 Ation Courses Il credits (at least 3 credits at the 300-400 Introduction to Survey Methods Introduction to Education, Teaching Methods and Field Production and Utilization of Instructional Technology Middle Level Learning Theory Pre, Early, & Adolescent Development Middle Level Cognitive Development Teaching of Mathematics in the Middle	9
MATH 310 and STA Required Concentra Choose 9 additional level) from: STAT 124 SEFE 200 SEFE 230 SEFE 245 SEFE 250 SEFE 300 SEFE 311	AT 350. 1 ation Courses Il credits (at least 3 credits at the 300-400 Introduction to Survey Methods Introduction to Education, Teaching Methods and Field Production and Utilization of Instructional Technology Middle Level Learning Theory Pre, Early, & Adolescent Development Middle Level Cognitive Development Teaching of Mathematics in the Middle School	9
MATH 310 and STA Required Concentra Choose 9 additional level) from: STAT 124 SEFE 200 SEFE 230 SEFE 245 SEFE 250 SEFE 300 SEFE 311 SEFE 326	At 350. 1 Ation Courses Il credits (at least 3 credits at the 300-400 Introduction to Survey Methods Introduction to Education, Teaching Methods and Field Production and Utilization of Instructional Technology Middle Level Learning Theory Pre, Early, & Adolescent Development Middle Level Cognitive Development Teaching of Mathematics in the Middle School ELL Strategies and Practice Educational Psychology for Diverse	9
MATH 310 and STA Required Concentra Choose 9 additional level) from: STAT 124 SEFE 200 SEFE 230 SEFE 245 SEFE 250 SEFE 300 SEFE 311 SEFE 326 SEFE 342	At 350. 1 Ation Courses Il credits (at least 3 credits at the 300-400 Introduction to Survey Methods Introduction to Education, Teaching Methods and Field Production and Utilization of Instructional Technology Middle Level Learning Theory Pre, Early, & Adolescent Development Middle Level Cognitive Development Teaching of Mathematics in the Middle School ELL Strategies and Practice Educational Psychology for Diverse Learners Educational Measurements, Assessment	9
MATH 310 and STA Required Concentra Choose 9 additional level) from: STAT 124 SEFE 200 SEFE 230 SEFE 245 SEFE 250 SEFE 300 SEFE 311 SEFE 326 SEFE 342 SEFE 370	ation Courses Il credits (at least 3 credits at the 300-400 Introduction to Survey Methods Introduction to Education, Teaching Methods and Field Production and Utilization of Instructional Technology Middle Level Learning Theory Pre, Early, & Adolescent Development Middle Level Cognitive Development Teaching of Mathematics in the Middle School ELL Strategies and Practice Educational Psychology for Diverse Learners Educational Measurements, Assessment and Evaluation	9
MATH 310 and STA Required Concentra Choose 9 additional level) from: STAT 124 SEFE 200 SEFE 230 SEFE 245 SEFE 250 SEFE 300 SEFE 311 SEFE 311 SEFE 326 SEFE 342 SEFE 370 SEFE 370	ation Courses Il credits (at least 3 credits at the 300-400 Introduction to Survey Methods Introduction to Education, Teaching Methods and Field Production and Utilization of Instructional Technology Middle Level Learning Theory Pre, Early, & Adolescent Development Middle Level Cognitive Development Teaching of Mathematics in the Middle School ELL Strategies and Practice Educational Psychology for Diverse Learners Educational Measurements, Assessment and Evaluation History and Philosophy of Education	9

1		= 00.				
•	Course counts fo	r 50% of	Maior re	eauirements	and Maior	GPA.

Total Hours

60

Natural Science and Math College-Wide Requirements

Code	Title	Hours
CHEM 107	General Chemistry I	3
CHEM 111	General Chemistry I Lab	1

Total Hours	12	
PHYS 216	University Physics 1 with Lab	4
MATH 225	Calculus I	4

Computer Programming Language

Code	Title	Hours
Competency in an app	proved Computer Programming Language is	
Required - See Adviso	or Approval	
CPSC		

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 alreadyearned 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

MATHEMATICS BS/SECONDARY EDUC (6152/SEED) This program is effective as of Summer 2023 Revised 05.24.2023 UCC 02.14.2023

² Minimum grade of C required to register for 300-400 level math

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