

CHEMISTRY, BACHELOR OF SCIENCE (BS) / PRE-PHARMACY (LECOM) (3+3)

Curriculum Guide

GPA Requirement

Major GPA: 2.0 or higher

Overall GPA: 2.0 or higher

Summary*

Code	Title	Hours
	Rock Studies Requirements	45
	Other Basic Requirements	0-3
	Computer Competency	0-3
	Major/Concentration Requirements	47
	Natural Science and Math College-Wide Requirements	12
	Electives	23

* 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 Requirements

Code	Title	Hours
The Rock		
SUBJ 139	University Seminar ¹	3
ENGL 102	Critical Writing	3
ENGL 104	Critical Reading	3
MATH 225	Calculus I ²	4
Select one of the following:		3
COMM 200	Civil Discourse: Theory & Practice	
PHIL 110	Ethics and Civil Discourse	
POLS 235	Civil Discourse and Democracy	
Subtotal		16

Integrated Inquiry

Creative and Aesthetic Inquiry

Select 3 Credits (<https://catalog.sru.edu/undergraduate/rock-studies/rock-studies-quick-guide/>) 3

Humanities Inquiry

Select 3 Credits (<https://catalog.sru.edu/undergraduate/rock-studies/rock-studies-quick-guide/>) 3

Social Science Inquiry

Select 3 Credits (<https://catalog.sru.edu/undergraduate/rock-studies/rock-studies-quick-guide/>) 3

Natural Sciences Inquiry

CHEM 107 General Chemistry I and CHEM 111 and General Chemistry I Lab ² 4

Physical Sciences Inquiry

PHYS 216 University Physics 1 with Lab ² 4

Subtotal 17

Thematic Thread

Select 12 Credits (<https://catalog.sru.edu/undergraduate/rock-studies/rock-studies-quick-guide/>) ³ 12

Total Hours 45

¹ Course offered in multiple subjects; cannot take course in first major subject

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

³ From at least 3 categories; no more than 6 credits from one department; 6 credits must be 300-level or above.

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 of the following: 0-3		
Meet required 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: 0-3		
Pass Computer Competency Exam OR		
Select one of the following at SRU or another post-secondary institution:		
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

Major Requirements

- Students may not withdraw from any course.
- Please meet with adviser for Rock Studies recommended courses for Pre-Pharmacy Track
- Recommended Rock Studies Courses:
 - ECON 201 OR ECON 202
 - PSYC 105 OR INDP 201

Code	Title	Hours
Required Courses		
CHEM 108	General Chemistry II ¹	3
CHEM 112	General Chemistry II Lab ¹	1
CHEM 201	Organic Chemistry I ¹	3
CHEM 211	Organic Chemistry Laboratory I ¹	1
CHEM 202	Organic Chemistry II ¹	3
CHEM 212	Organic Chemistry Laboratory II ¹	1
CHEM 301	Physical Chemistry I ¹	3
CHEM 321	Physical Chemistry Laboratory I ¹	1
CHEM 335	Biochemistry I ¹	3
CHEM 336	Biochemistry Laboratory I ¹	1
CHEM 337	Biochemistry II	3

CHEM 338	Biochemistry Laboratory II	1
Subtotal		24
Chemistry Electives		
Select one of the following:		4
CHEM 350 & CHEM 351	Analytical Chemistry and Analytical Chemistry Lab ¹	
CHEM 425 & CHEM 426	Instrumental Analysis and Instrumental Analysis Laboratory ¹	
Subtotal		4
Required Math and Science Courses		
PHYS 217	University Physics 2 with Lab ¹	4
STAT 152	Elementary Statistics I ¹	3
MATH 230	Calculus II ¹	4
BIOL 104	Principles of Biology with Lab ¹	4
BIOL 250	Genetics with Lab ¹	4
Subtotal		19
Total Hours		47

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

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

Natural Science and Math College-Wide Requirements

Code	Title	Hours
CHEM 107	General Chemistry I ¹	3
CHEM 111	General Chemistry I Lab ¹	1
MATH 225	Calculus I ¹	4
PHYS 216	University Physics 1 with Lab ¹	4

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

1. 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

CHEMISTRY - BS (6118)

Biochemistry w/3+3 Pre-Pharmacy (61P4)

This program is effective as of Fall 2021

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