

CHEMISTRY, BACHELOR OF ARTS (BA)

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
	Modern Language Requirement	0-9
	Other Basic Requirements	0-3
	Major/Concentration Requirements	40
	Natural Science and Math College-Wide Requirements	12
	Electives	35

* 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
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-program/>) 3

Humanities Inquiry

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

Social Science Inquiry

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

Natural Sciences Inquiry

CHEM 107 General Chemistry I ² 3

CHEM 111 General Chemistry I Lab 1

Physical Sciences Inquiry

PHYS 216 University Physics 1 with Lab 4

Subtotal 17

Thematic Thread

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

Total Hours 45

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

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

³ 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.

BA Modern Language Requirement

BA degree requires language proficiency at the 103 class level. Exemption by placement or examination is possible.

Code	Title	Hours
Complete 0-9 credits		0-9
Total Hours		0-9

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

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

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

Code	Title	Hours
Required Chemistry 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 350	Analytical Chemistry ¹	3
CHEM 351	Analytical Chemistry Lab ¹	1

CHEM 442	Inorganic Chemistry ¹	3
CHEM 452	Physical Inorganic Chemistry Laboratory ¹	1
Subtotal		28
Chemistry Elective		
Select four credits (must include one lecture and one lab):		4
CHEM 337	Biochemistry II ¹	
CHEM 338	Biochemistry Laboratory II ¹	
CHEM 340	Air Quality Assessment ¹	
CHEM 370	Water Quality Assessment ¹	
CHEM 425	Instrumental Analysis ¹	
CHEM 426	Instrumental Analysis Laboratory ¹	
CHEM 460	Materials Chemistry ¹	
CHEM 475	Advanced Organic Synthesis ¹	
CHEM 490	Independent Study ¹	
Subtotal		4
Required Math and Science Courses		
MATH 230	Calculus II ¹	4
PHYS 217	University Physics 2 with Lab ¹	4
Subtotal		8
Total Hours		40

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
PHYS 201	Elements of Physics I with Lab ¹	4
or PHYS 216	University Physics 1 with Lab	
MATH 125	Precalculus ¹	4
or MATH 225	Calculus I	

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 - BA (6 12)

This program is effective as of Fall 2021

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