Slippery Rock University of Pennsylvania  
Bachelor of Science in Chemistry  
Concentration in Biochemistry

LIBERAL STUDIES REQUIREMENTS (45-46 credits)
See Liberal Studies Guide for Goal and Enrichment choices

GOAL COURSE REQUIREMENTS
Complete Goal requirements as indicated below (36-37 credits)

✓ Course Title Cr Gr
Basic Requirements (9 credits)
ENGL 102 Critical Writing 3
ENGL 104 or ENGL 220 Critical Reading or Intro to Literary and Cultural Studies 3
COMM 200 Civil Discourse 3

The Arts (3 credits)
Goal 3

Global Community (9 credits)
Goal – Non-US 3
Goal – Non-US 3
Goal - US 3

Human Institutions/Interpersonal Relationships (3 credits)
Goal 3

Science, Technology & Math (9-10 credits) Recommended
Goal – Sci 3
PHYS 211^ General Physics I / Lab 0^ 4
MATH 225^ Calculus I ♩ 4

Challenges of the Modern Age (3 credits)
Goal 3

ENRICHMENT COURSE REQUIREMENTS
Choose one course from three of the following Enrichment areas. (9 credits)

The Arts

Global Community

Human Institutions/Interpersonal Relationships

Science, Technology & Math Recommended
BIOL 250^ Genetics / Lab♂ 4

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 3

COMPUTER COMPETENCY
(for students entering Fall 2008 and after)
Students must demonstrate “computer competency” by:

Passed Exam Pass Computer Competency Exam at SRU

OR
CPSC _____ Complete one of the following courses: CPSC 100, 110, 130, or PE 202 at SRU or another post-secondary institution 1 - 3

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 advisors to ensure accurate progress towards degree completion. The information on this guide is current as of the date below. Students are responsible for curriculum requirements at the time of enrollment at the University.

• Course may have a prerequisite. See Undergraduate Online Catalog.
• Course can be counted as a Liberal Studies Requirement, but earns credit only once toward your 120-credits total.
• Course counts for 50% of Major requirements and Major GPA
• Course counts for 50% of Major requirements but not for Major GPA
• A “C” or better must be earned in course to register for Chemistry courses 300 or above

PASSHE = Pennsylvania State System of Higher Education Institution

MAJOR/CONCENTRATION REQUIREMENTS (56 credits)
• 28 major credits must be taken at SRU or PASSHE
• 28 major credits must be taken at the 300 level or above

✓ Course Title Cr Gr
Required Introductory Chemistry Courses (4 credits)
CHEM 108^ General Chemistry II ♩ 3
CHEM 112^ General Chemistry II Lab♀ 1

Required Foundation Chemistry Courses (22 credits)
CHEM 201^ Organic Chemistry I ♩ 3
CHEM 211^ Organic Chemistry I Lab♀ 1
CHEM 243^ Introduction to Research in Chemistry 1
CHEM 301^ Physical Chemistry I ♩ 3
CHEM 321^ Physical Chemistry I Lab♀ 1
CHEM 335^ Biochemistry I ♩ 3
CHEM 336^ Biochemistry I Lab♀ 1
CHEM 350^ Analytical Chemistry ♩ 3
CHEM 351^ Analytical Chemistry Lab♀ 1
CHEM 442^ Inorganic Chemistry ♩ 3
CHEM 452^ Physical Inorganic Chemistry Lab♀ 1
CHEM 491^ Chemistry Seminar 1

Required In-Depth Chemistry Courses (14 credits)
CHEM 202^ Organic Chemistry II ♩ 3
CHEM 212^ Organic Chemistry II Lab♀ 1
CHEM 302^ Physical Chemistry II ♩ 3
CHEM 426^ Instrumental Analysis ♩ 3
CHEM 460^ Materials Chemistry ♩ 3

Additional Required In-Depth Chemistry Courses (4 credits)
CHEM 337^ Biochemistry II ♩ 3
CHEM 338^ Biochemistry II Lab♀ 1
CHEM 415^ Forensic Analysis ♩ 3
CHEM 416^ Forensic Lab♀ 1
CHEM 475^ Advanced Organic Synthesis/Lab♀ 4

Cognate Courses (12 credits)
BIOL 104^ Principles of Biology/Lab♀ 4
PHYS 213^ General Physics III / Lab♀ 4
MATH 230^ Calculus II ♩ 4

NATURAL SCIENCE AND MATHEMATICS
COLLEGE WIDE REQUIREMENT (12 credits)
CHEM107^ General Chemistry I ♩ ♦ 3
CHEM111^ General Chemistry I Lab♀ 1
PHYS 211^ General Physics I / Lab♀ 4
MATH 225^ Calculus I ♩ 4

BIOCHEMISTRY CONCENTRATION
(15 credits)
✓ Course Title Cr Gr
CHEM 337^ Biochemistry II 3
CHEM 338^ Biochemistry II Lab♀ 1
BIOL 104^ Principles of Biology w/Lab♀ 4
BIOL 250^ Genetics w/Lab♀ 4
BIOL 370^ Molecular Biology 3

ACS Certification Requirements – Optional (3 credits)
CHEM 490^ Independent Study 2
CHEM 496^ Research 1

GPA REQUIREMENT
2.00 or higher Major GPA
2.00 or higher Overall GPA

CHEMISTRY – BS (6118)
Concentration in Biochemistry (BCHM)
Effective Fall 2019
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