## GOAL COURSE REQUIREMENTS

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

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Cr</th>
<th>Gr</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 102</td>
<td>Critical Writing</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>ENGL 104 or ENGL 220</td>
<td>Critical Reading or Intro to Literary and Cultural Studies</td>
<td>3</td>
<td></td>
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<tr>
<td>COMM 200</td>
<td>Civil Discourse</td>
<td>3</td>
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</tbody>
</table>

### Basic Requirements (9 credits)

- Goal
- Non-US
- Goal - US

### Global Community (9 credits)

- Goal
- Non-US
- Goal - US

### Human Institutions/Interpersonal Relationships (3 credits)

- PSYC 105 Introduction to Psychology

### Science, Technology & Math (9-10 credits) Recommended

#### BIOL 104
- Principles of Biology / Lab ○ 4

#### PHYS 211
- General Physics I / Lab ○ 4

- Lab-Sci ◊ 0-1

#### MATH 225
- Calculus I ⊗

### Challenged of the Modern Age (3 credits)

Choose one course from three of the following Enrichment areas.

### ENRICHMENT COURSE REQUIREMENTS

#### The Arts
- Goal

#### Global Community
- Non-US
- Goal

### Human Institutions/Interpersonal Relationships
- Goal

### Science, Technology & Math Recommended

#### MATH 230
- Calculus II ⊗

### COMPUTER COMPETENCY

Students must demonstrate "computer competency" by:

- Passed Exam
  - Pass Computer Competency Exam at SRU
- OR
  - CPSC 100 Complete one of the following courses: CPSC 100, 110, 130, or PE 202 at SRU or another post-secondary institution

#### 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

### GPA REQUIREMENT

- 2.00 or higher Major GPA
- 2.00 or higher Overall GPA

### LIBERAL STUDIES REQUIREMENTS (45-46 credits)

See Liberal Studies Guide for Goal and Enrichment choices

### 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

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<tr>
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</table>
| Required introductory Chemistry Courses (4 credits)
  - CHEM 120 General Chemistry I ⊗ +
  - CHEM 112 General Chemistry II Lab ⊗ +

### 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 425 Instrumental Analysis ⊗ + 3
- CHEM 426 Instrumental Analysis Lab ⊗ + 1
- CHEM 460 Materials Chemistry ⊗ + 3

### Additional Required In-Depth Chemistry Courses (4 credits)

Choose one lecture and one laboratory course

- 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

### CHEMISTRY EDUCATION CONCENTRATION (13 credits)

<table>
<thead>
<tr>
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</thead>
<tbody>
<tr>
<td>CHEM 490 Independent Study (required for ACS Certification)</td>
<td>2</td>
<td></td>
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</table>

### ELECTIVES

- CHEM 490 Independent Study (required for ACS Certification) 2

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Slippery Rock University of Pennsylvania – Curriculum Guide
Bachelor of Science in Chemistry
Concentration in Chemistry Education

Chemistry – BS (6118)
Concentration in Chemistry Education (CHED)
Effective Fall 2019
Revised 12-2018