Slippery Rock University of Pennsylvania – Curriculum Guide

Bachelor of Arts in Chemistry

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

<table>
<thead>
<tr>
<th>GOAL COURSE REQUIREMENTS</th>
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<tbody>
<tr>
<td>Complete Goal requirements as indicated below (36-37 credits)</td>
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</tbody>
</table>

- Basic Requirements (9 credits)
  - ENGL 102 Critical Writing
  - ENGL 104 or ENGL 220 Critical Reading " or Intro to Literary and Cultural Studies
  - COMM 200 Civil Discourse

- The Arts (3 credits)
  - Goal

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

- Human Institutions/Interpersonal Relationships (3 credits)
  - Goal

- Science, Technology & Math (9-10 credits) Recommended
  - Goal – Sci

  - PHYS 201^ or PHYS 211 Elements of Physics /Lab ♣ or
    General Physics I / Labô
  - MATH 125^ or MATH 225^ Precalculus ♣ or
    Calculus I ☆☆

- Challenges of the Modern Age (3 credits)
  - Goal

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

- Global Community

- Human Institutions/Interpersonal Relationships

- Science, Technology & Math Recommended
  - MATH230--^ Calcu...  

MODERN LANGUAGE REQUIREMENT (0-9 credits)
BA degree requires language proficiency at the 103 class level. Exemption by placement or examination is possible.

- 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 be counted toward the 120 credit hour minimum needed to earn a degree.
  - ACSD 110 Beginning Algebra

- 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-credit 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 REQUIREMENTS (40 credits)
- 20 major credits must be taken at SRU or PASSHE
- 20 major credits must be taken at the 300 level or above

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Cr</th>
<th>Gr</th>
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<tbody>
<tr>
<td>CHEM 108^</td>
<td>General Chemistry II ☆</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>CHEM 112^</td>
<td>General Chemistry II Lab ☆</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>CHEM 201^</td>
<td>Organic Chemistry I ☆</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>CHEM 211^</td>
<td>Organic Chemistry I Lab ☆</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>CHEM 202^</td>
<td>Organic Chemistry II ☆</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>CHEM 212^</td>
<td>Organic Chemistry II Lab ☆</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>CHEM 301^</td>
<td>Physical Chemistry I ☆</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>CHEM 321^</td>
<td>Physical Chemistry I Lab ☆</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>CHEM 335^</td>
<td>Biochemistry I ☆</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>CHEM 336^</td>
<td>Biochemistry I Lab ☆</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>CHEM 350^</td>
<td>Analytical Chemistry ☆</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>CHEM 351^</td>
<td>Analytical Chemistry Lab☆</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>CHEM 422^</td>
<td>Inorganic Chemistry ☆</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>CHEM 452^</td>
<td>Physical Inorganic Chemistry Lab</td>
<td>1</td>
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- Chemistry Elective (4 credits: must include 1 lecture and 1 lab)
  - CHEM 337^ Biochemistry II ☆ | 3 |
  - CHEM 338^ Biochemistry II Lab☆ | 1 |
  - CHEM 340^ Air Quality Assessment / Lab ♣ | 4 |
  - CHEM 370^ Water Quality Assessment / Lab ♣ | 4 |
  - CHEM 425^ Instrumental Analysis ☆ | 3 |
  - CHEM 426^ Instrumental Analysis Lab☆ | 1 |
  - CHEM 460^ Materials Chemistry ☆ | 3 |
  - CHEM 475^ Adv Organic Synthesis/Lab ☆ | 4 |
  - CHEM 490^ Independent Study | 1 |

- Required Math and Science Courses (8 credits)
  - PHYS 213--^ General Physics III / Lab ☆ | 4 |
  - MATH230--^ Calculus II ☆ | 4 |

NATURAL SCIENCE AND MATHEMATICS COLLEGE WIDE REQUIREMENT (12 credits)

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<tbody>
<tr>
<td>CHEM107^</td>
<td>General Chemistry I☆</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>CHEM111^</td>
<td>General Chemistry I Lab☆</td>
<td>1</td>
<td></td>
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| PHYS 201^ or PHYS 211^ Elements of Physics /Lab ♣ or
  General Physics I / Labô | 4 |
| MATH 125^ or MATH 225^ Precalculus ☆ or
  Calculus I ☆☆ | 4 |

ELECTIVES

- COMPUTER COMPETENCY
  - Students must demonstrate “computer competency” by:
    - Passed Exam
    - Pass Computer Competency Exam at SRU

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

- CHEMISTRY – BA (6 12)
  - Effective Fall 2018
  - Revised 1-2019