

CHEMISTRY, BACHELOR OF SCIENCE (BS) / PRE-PHARMACY (DUQUESNE) (3+4)

Curriculum Guide

GPA Requirement

Overall GPA: 3.00 or higher Math/Science Course GPA: 3.00 or higher

Summary*

| Code | Title | Hours |
|------|--|-------|
| | Rock Studies 2 Requirements | 45 |
| | Other Basic Requirements | 0-3 |
| | Computer Competency | 0-3 |
| | Major/Concentration Requirements | 43-44 |
| | Natural Science and Math College-Wide Requirements | 12 |

* 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. However, because this is a pre-professional program, credits taken during the 1st year of the graduate program are applied toward the undergraduate credit hours to meet the 120 credits required for your undergraduate degree.

Rock Studies 2 Requirements

| Code | Title | Hours |
|-----------------|--|-------|
| The Rock | | |
| SUBJ 139 | Foundations of Academic Discovery ¹ | 3 |
| PHIL 110 | Ethics and Civil Discourse | 3 |
| ENGL 102 | Critical Writing | 3 |
| ENGL 104 | Critical Reading | 3 |
| MATH 225 | Calculus I | 4 |
| | 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 Science Inquiry

| | | |
|---------------------|---|---|
| CHEM 107 & CHEM 111 | General Chemistry I and General Chemistry I Lab | 4 |
|---------------------|---|---|

Physical Science 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-quick-guide/) ² | 12 |
|--|----|

| | |
|--------------------|-----------|
| Total Hours | 45 |
|--------------------|-----------|

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

² 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.

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: | | |
| | Meet required minimum SAT or ACT math score OR | 0-3 |
| ESAP 110 | Beginning Algebra | |

| | |
|--------------------|------------|
| Total Hours | 0-3 |
|--------------------|------------|

Computer Competency

| Code | Title | Hours |
|--|----------------------------------|-------|
| Demonstrate "computer competency" by one of the following: | | |
| | Pass Computer Competency Exam OR | 0-3 |

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 |
|--------------------|------------|

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

| Code | Title | Hours |
|--|--------------------------|-------|
| Required Introductory Chemistry Courses | | |
| CHEM 108 | General Chemistry II | 3 |
| CHEM 112 | General Chemistry II Lab | 1 |
| | Subtotal | 4 |

| | | |
|--|--------------------------------|---|
| Required Foundation Chemistry Courses | | |
| CHEM 201 | Organic Chemistry I | 3 |
| CHEM 211 | Organic Chemistry Laboratory I | 1 |
| CHEM 335 | Biochemistry I | 3 |
| CHEM 336 | Biochemistry Laboratory I | 1 |
| CHEM 350 | Analytical Chemistry | 3 |
| CHEM 351 | Analytical Chemistry Lab | 1 |

| | | |
|--|---|--------------|
| Select one of the following: | | 4 |
| CHEM 301 & CHEM 321 | Physical Chemistry 1 and Physical Chemistry Laboratory I | |
| CHEM 442 & CHEM 452 | Inorganic Chemistry and Physical Inorganic Chemistry Laboratory | |
| Subtotal | | 16 |
| Required In-Depth Chemistry Courses | | |
| CHEM 202 | Organic Chemistry II | 3 |
| CHEM 212 | Organic Chemistry Laboratory II | 1 |
| CHEM 337 | Biochemistry II | 3 |
| CHEM 338 | Biochemistry Laboratory II | 1 |
| Select one of the following: | | 3-4 |
| CHEM 302 | Physical Chemistry II | |
| CHEM 460 | Materials Chemistry | |
| CHEM 425 & CHEM 426 | Instrumental Analysis and Instrumental Analysis Laboratory | |
| Subtotal | | 11-12 |
| Cognate Courses | | |
| BIOL 114 | Biology II: Foundations of Molecules, Genes and Cells with Lab | 4 |
| MATH 230 | Calculus II | 4 |
| PHYS 217 | University Physics 2 with Lab | 4 |
| Subtotal | | 12 |
| Total Hours | | 43-44 |

This program is effective as of Summer 2022
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UCC 03.22.2022

* 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 | 3 |
| CHEM 111 | General Chemistry I Lab | 1 |
| MATH 225 | Calculus I | 4 |
| PHYS 216 | University Physics 1 with Lab | 4 |

Additional Pre-Pharmacy Prerequisite Courses

| Code | Title | Hours |
|----------|-------------------------|-------|
| BIOL 250 | Genetics with Lab | 4 |
| STAT 152 | Elementary Statistics I | 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 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)

Pre-Pharmacy Duquesne 3+4 (61DQ)