

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

Pre-Acceptance Requirements

To be considered for the pre-acceptance program at Slippery Rock University, students must:

- Have a minimum high school QPA of 3.0.
- Score a minimum of 1130 on their SAT or 23 on their ACT.
- Demonstrate evidence of leadership potential, community service, and involvement in co-curricular activities.
- Provide one letter of recommendation from either a high school teacher or guidance counselor.

To maintain satisfactory progress in the Duquesne pre-pharmacy program, students must:

- Complete the curricular requirements described in their SRU curriculum guide.
- Earn a letter grade of "C" or better in all courses.
- Maintain a minimum QPA of 2.50.

For the 2+4 program: Students should prepare to take the PCAT but October of their sophomore year at Slippery Rock University.

For the 3+4 program: Students should prepare to take the PCAT but October of their junior year at Slippery Rock University.

Before January 15th of their sophomore year (for the 2+4 option) and their junior year (for the 3+4 option), prospective students must apply to Duquesne University. In addition to the grade and QPA requirements listed above, formal acceptance in the PharmD program requires that students:

- Attain a PCAT score of 375 or better.
- Participate in an interview process with the Duquesne University School of Pharmacy faculty.
- Submit a letter of recommendation from the SRU Pre-Pharmacy Selection Committee.
- Provide evidence of leadership potential and commitment to the pharmacy profession.

Preference will be granted to candidates who:

- Attain a PCAT score of 400 or better.
- Maintain a QPA of 3.00 or higher for all science and math courses.
- Maintain a cumulative QPA of 3.00 or higher.

Related Links

Chemistry: Pre-Pharmacy (Duquesne) Program Page ([https://www.sru.edu/academics/majors-and-minors/chemistry-pre-pharmacy-\(duquesne\)/](https://www.sru.edu/academics/majors-and-minors/chemistry-pre-pharmacy-(duquesne)/))

Chemistry Department Page (<https://www.sru.edu/academics/colleges-and-departments/ches/departments/chemistry/>)

Professional Licensure/Certification Page (<https://www.sru.edu/students/student-consumer-information/professional-licensures/>)

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		
<i>Creative and Aesthetic Inquiry</i>		
	Select 3 Credits (https://catalog.sru.edu/undergraduate/rock-studies/rock-studies-quick-guide/)	3
<i>Humanities Inquiry</i>		
	Select 3 Credits (https://catalog.sru.edu/undergraduate/rock-studies/rock-studies-quick-guide/)	3
<i>Social Science Inquiry</i>		
	Select 3 Credits (https://catalog.sru.edu/undergraduate/rock-studies/rock-studies-quick-guide/)	3
<i>Natural Science Inquiry</i>		
CHEM 107 & CHEM 111	General Chemistry I and General Chemistry I Lab	4
<i>Physical Science Inquiry</i>		
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:		0-3
Meet required minimum SAT or ACT math score OR		
ESAP 110	Beginning Algebra	
Total Hours		0-3

Computer Competency

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

* 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)

This program is effective as of Summer 2022

Revised 07.06.2022

UCC 03.22.2022

Recommended Three-Year Plan

Course	Title	Hours
First Year		
Fall		
CHEM 107	General Chemistry I	3
CHEM 111	General Chemistry I Lab	1
BIOL 104		4
ESAP 101	FYRST Seminar ²	1
MATH 125	Precalculus	4
SUBJ 139	Foundations of Academic Discovery ¹	3
Hours		16
Spring		
CHEM 108	General Chemistry II	3
CHEM 112	General Chemistry II Lab	1
BIOL 250	Genetics with Lab	4
ENGL 102	Critical Writing	3
MATH 225	Calculus I	4
Hours		15
Second Year		
Fall		
CHEM 201	Organic Chemistry I	3
CHEM 211	Organic Chemistry Laboratory I	1
CHEM 243	Introduction to Research in Chemistry	1
ENGL 104	Critical Reading	3
MATH 230	Calculus II	4
PHYS 211	General Physics I with Lab	4
Hours		16
Spring		
CHEM 202	Organic Chemistry II	3
CHEM 212	Organic Chemistry Laboratory II	1
PHIL 140	World Religions	3
PHYS 217	University Physics 2 with Lab	4
PSYC 105	Introduction to Psychology	3
STAT 152	Elementary Statistics I	3
Hours		17
Third Year		
Fall		
CHEM 350	Analytical Chemistry	3
CHEM 351	Analytical Chemistry Lab	1
CHEM 335	Biochemistry I	3
CHEM 336	Biochemistry Laboratory I	1
CHEM 442	Inorganic Chemistry	3
Creative & Aesthetic Inquiry (https://catalog.sru.edu/undergraduate/rock-studies/rock-studies-quick-guide/)		3
Hours		14
Spring		
CHEM 425	Instrumental Analysis	3
CHEM 426	Instrumental Analysis Laboratory	1
CHEM 452	Physical Inorganic Chemistry Laboratory	1
CHEM 337	Biochemistry II	3
CHEM 338	Biochemistry Laboratory II	1
CHEM 491	Chemistry Seminar	1

CHEM 302 or CHEM 460	Physical Chemistry II or Materials Chemistry	3
Hours		13
Total Hours**		91

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

² Students are encouraged to take ESAP 101 as a Free Elective.

* Prepare to take PCAT by October, Fall of Sophomore Year.

Major Code: 61DQ

UCC 02.02.2021

Revised: 08.02.2021

**** This document is meant to serve as a guide. Some planners may show more than 120 credits because faculty have created flexibility in choosing courses. However, only 120 credits are required to obtain a degree. Please consult with your academic adviser and refer to your curriculum guide prior to registering for courses. This plan should be reviewed, and verified, by you and your academic adviser at least once each academic year.**