



Chemistry Pre-Medicine/Pre-Pharmacy (Biochem) Concentration  
(Comprehensive)  
Academic Plan of Study  
2021-2022 Catalog

Name: \_\_\_\_\_

Student ID #: \_\_\_\_\_ Date: \_\_\_\_\_

### University Studies Requirements

**Core Courses** \*completed within first 60 credits

Course	Credits	Grade	Planned to Take
WRIT 102 College Writing II	3	_____	_____
WRIT 209 Business and Professional Writing	3	_____	_____
HHP 102 Wellness and a Positive Lifestyle	3	_____	_____
COMM 110 Intro to Speech Communications	3	_____	_____
MATH/CSCI	3-4	_____	_____

### Humanities

Course	Course Title	Credits	Grade	Planned to Take
History	_____	3	_____	_____
Literature	_____	3	_____	_____
World Language, Culture, & Philosophy	_____	3	_____	_____

**Social Science (6 cr)** *must include 2 different prefixes*

Course	Course Title	Credits	Grade	Planned to Take
Course 1	_____	3	_____	_____
Course 2	_____	3	_____	_____

### Natural & Physical Sciences

Course	Course Title	Credits	Grade	Planned to Take
Environmental	_____	2	_____	_____
Lab	_____	4	_____	_____

### Fine & Applied Arts

Course	Course Title	Credits	Grade	Planned to Take
Art History, Criticism & Appreciation	_____	3	_____	_____
Aesthetic Experience	_____	3	_____	_____

**Global Awareness & Diversity** \*may be fulfilled through other University Studies categories

Course	Course Title	Credits	Grade	Planned to Take
Global Awareness	_____	3	_____	_____
Diversity	_____	3	_____	_____

## Chemistry (comprehensive) Major Requirements

All grades in required courses for this major must be C or higher, except that two grades of C- may be counted toward the major. No minor is required.

66 total credits required to include:

### Chemistry Core required courses (65 credits required):

Course	Course Title	Credits	Grade	Planned to Take
CHEM 105	General Chemistry I	5		
CHEM 106	General Chemistry II	4		
CHEM 305	Quant Analysis Lecture	3		
CHEM 306	Quant Analysis Laboratory	2		
CHEM 320	Organic Chemistry Lecture I	3		
CHEM 321	Organic Chemistry Lecture II	3		
CHEM 322	Organic Chemistry Lab I	1		
CHEM 323	Organic Chemistry Lab II	1		
CHEM 327	Molecular Spectroscopy I	1		
CHEM 345	Physical Chemistry Lect I	4		
CHEM 360	Introduction to Biochemistry	3		
CHEM 462	Advanced Biochemistry Special Topics "Laboratory Techniques in Biochemistry"	3		
CHEM 481	Senior Seminar in Chemistry	1		
CHEM 497	Calculus and Analytic Geometry I	1		
MATH 240	Calculus and Analytic Geometry II	4		
MATH 241	Calculus and Analytic Geometry II	4		
PHYS 201	Calculus-Based Physics I	5		
PHYS 202	Calculus-Based Physics II	5		
BIOL 330	Genetics	4		
BIOL 355	Microbes and Defense	4		
BIOL 440	Cell Biology	4		

**Note:** PHYS 107 & PHYS 205 together substitute for PHYS 201. PHYS 108 and PHYS 206 together substitute for PHYS 202. Special department permission required to enroll in PHYS 205 or PHYS 206.

**Note:** BIOL 130 & 132 are prerequisites for BIOL 330.

### Capstone courses (1 credit required):

CHEM 491	Special Research	1-4		
CHEM 496	Senior Paper	1		
CHEM 498	Internship	1-4		

Students who also choose BIOL 340 - Ecology will complete a minor in biology. With additional biology coursework, students may earn a second major in Biology.

Students choosing the Pre-Medicine/Pre-Pharmacy (Biochemistry) Concentration will have completed the topics recommended for a biochemistry major by the American Society of Biochemistry and Molecular Biology.