

CHEMISTRY, BS

Course Sequencing

Chemistry General Concentration

First Year

Fall		Hours
CHEM 1411	General Chemistry I	4
USSE 1201	University Seminar	2
ENGL 1301	Writing and Rhetoric I	3
HIST 1301	U.S. History to 1865	3
Biology, Geology, or Environmental Science Course		4
Hours		16

Spring

CHEM 1412	General Chemistry II	4
MATH 2413	Calculus I	4
ENGL 1302	Writing and Rhetoric II	3
HIST 1302	U.S. History Since 1865	3
Hours		14

Second Year

Fall

CHEM 3411	Organic Chemistry I	4
PHYS 2425	University Physics I	4
MATH 2414	Calculus II	4
Biology, Geology, or Environmental Science Course		4
Hours		16

Spring

CHEM 3412	Organic Chemistry II	4
PHYS 2426	University Physics II	4
POLS 2305	U.S. Government and Politics	3
MATH 2415	Calculus III	4
Language, Philosophy & Culture Core Requirement		3
Hours		18

Third Year

Fall

CHEM 4401	Biochemistry I	4
POLS 2306	State and Local Government	3
CHEM 4407	Inorganic Chemistry	4
CHEM 3418	Instrumental Analysis	4
Hours		15

Spring

CHEM 4402	Biochemistry II	4
CHEM 3417	Quantitative Analysis	4
General Chemistry Elective		4
General Chemistry Elective		4
Hours		16

Fourth Year

Fall

CHEM 4423	Physical Chemistry I	4
Social and Behavioral Sciences Core Requirement		3
General Chemistry Elective		4

Elective to meet 120		2
Hours		13

Spring

CHEM 4424	Physical Chemistry II	4
CHEM 4292	Senior Chemistry Seminar	2
CHEM 4085	Major Field Test in Chemistry	0
General Chemistry Elective		3
Creative Arts Core Requirement		3
Hours		12
Total Hours		120

Environmental Chemistry Concentration

First Year

Fall

Fall		Hours
CHEM 1411	General Chemistry I	4
USSE 1201	University Seminar	2
ENGL 1301	Writing and Rhetoric I	3
Biology, Geology, or Environmental Science Course		4
Creative Arts Core Requirement		3
Hours		16

Spring

CHEM 1412	General Chemistry II	4
ENGL 1302	Writing and Rhetoric II	3
MATH 2413	Calculus I	4
Biology, Geology, or Environmental Science Course		4
Hours		15

Second Year

Fall

CHEM 3411	Organic Chemistry I	4
MATH 1442	Statistics for Life	4
PHYS 1401	General Physics I or PHYS 2425 or University Physics I	4
Language, Philosophy & Culture Core Requirement		3
Hours		15

Spring

CHEM 3412	Organic Chemistry II	4
PHYS 1402	General Physics II or PHYS 2426 or University Physics II	4
MATH 2414	Calculus II	4
Social and Behavioral Sciences Core Requirement		3
Hours		15

Third Year

Fall

CHEM 3418	Instrumental Analysis	4
Environmental Chemistry Elective		4
Environmental Chemistry Elective		4
American History Core Requirement		3
Hours		15

Spring

CHEM 3417	Quantitative Analysis	4
CHEM 4443	Environmental Chemistry	4
Environmental Chemistry Elective		4

American History Core Requirement	3
Hours	15
Fourth Year	
Fall	
CHEM 4423 Physical Chemistry I	4
POLS 2305 U.S. Government and Politics	3
Environmental Chemistry Elective	4
General Elective	3
Hours	14
Spring	
CHEM 4424 Physical Chemistry II	4
CHEM 4292 Senior Chemistry Seminar	2
CHEM 4344 Chemical Oceanography	3
CHEM 4085 Major Field Test in Chemistry	0
Environmental Chemistry Elective	3
POLS 2306 State and Local Government	3
Hours	15
Total Hours	120

Biochemistry/Preprofessional Concentration

First Year	
Fall	
CHEM 1411 General Chemistry I	4
USSE 1201 University Seminar	2
BIOL 1406 Biology I	4
ENGL 1301 Writing and Rhetoric I	3
HIST 1301 U.S. History to 1865	3
Hours	16
Spring	
CHEM 1412 General Chemistry II	4
BIOL 1407 Biology II	4
ENGL 1302 Writing and Rhetoric II	3
MATH 2413 Calculus I	4
Hours	15
Second Year	
Fall	
CHEM 3411 Organic Chemistry I	4
MATH 1442 Statistics for Life	4
PHYS 1401 General Physics I or PHYS 2425 or University Physics I	4
Language, Philosophy & Culture Core Requirement	3
Hours	15
Spring	
CHEM 3412 Organic Chemistry II	4
PHYS 1402 General Physics II or PHYS 2426 or University Physics II	4
MATH 2414 Calculus II	4
HIST 1302 U.S. History Since 1865	3
Hours	15
Third Year	
Fall	
CHEM 4401 Biochemistry I	4

POLS 2305 U.S. Government and Politics	3
BIOL 2421 Microbiology	4
CHEM 3418 Instrumental Analysis	4
Hours	15
Spring	
CHEM 4402 Biochemistry II	4
CHEM 3417 Quantitative Analysis	4
BIOL 2416 Genetics	4
Biochemistry Elective	4
Hours	16
Fourth Year	
Fall	
CHEM 4423 Physical Chemistry I	4
CHEM 4292 Senior Chemistry Seminar	2
POLS 2306 State and Local Government	3
Social and Behavioral Sciences Core Requirement	3
Hours	12
Spring	
CHEM 4085 Major Field Test in Chemistry	0
Biochemistry Elective	3
Biochemistry Elective	3
Biochemistry Elective	3
Creative Arts Core Requirement	3
Elective to reach 120	4
Hours	16
Total Hours	120