

CHEMISTRY (B.S.)

Degree: Bachelor of Science

Major: Chemistry

Concentration: None

Total Hours: 120

Code	Title	Hours
General Education Core Curriculum		
<i>Communication</i>		
ENGL 1301	Composition I	3
Select one of the following:		3
COMM 1315	Public Speaking I	
COMM 1321	Business and Professional Speech	
FREN 1311	Beginning French I	
SPAN 1311	Beginning Spanish I	
<i>Mathematics - 3 Hours</i>		
MATH 2413	Calculus and Analytical Geometry I ¹	4
<i>Life and Physical Sciences</i>		
Select six hours from the following: ¹		6
BIOL 1406	General Biology I (Majors)	
BIOL 1407	General Biology II (Majors)	
GEOL 1403	Geology I: Physical Geology	
GEOL 1404	Geology II: Historical Geology	
<i>Language, Philosophy and Culture</i>		
Select three hours from the following:		3
DSDE 1374	Introduction to Deaf Studies	
ENGL 2300	Ethics and Literature	
ENGL 2322	British Literature	
ENGL 2326	American Literature	
ENGL 2331	World Literature	
ENGL 2376	African-American Literature	
FREN 2312	Intermediate French II	
PHIL 1370	Philosophy of Knowledge	
PHIL 2306	Ethics	
SPAN 2312	Intermediate Spanish II	
<i>Creative Arts</i>		
Select three hours from the following:		3
ARTS 1301	Art Appreciation	
ARTS 1303	Art History I	
COMM 1375	Film Appreciation	
COSC 1324	The Art of Computer Game Development	
DANC 2303	Dance Appreciation	
MUSI 1306	Music Appreciation	
MUSI 1309	Jazz History and Appreciation	
MUSI 1310	History of Rock and Roll	
PHIL 1330	Arts and Ideas	
THEA 1310	Theatre Appreciation	
<i>American History</i>		
Select six hours from the following:		6
HIST 1301	U S History I 1763-1877	

HIST 1302	U S History II Since 1877	
HIST 2301	Texas History	
<i>Government/Political Science</i>		
POLS 2301	Intro to American Government I	3
POLS 2302	Intro/American Government II	3
<i>Social and Behavioral Sciences</i>		
Select three hours from the following:		3
ANTH 2346	Introduction to Anthropology	
ANTH 2351	Cultural Anthropology	
BULW 1370	Business Environment and Public Policy	
CRIJ 1301	Intro to Criminal Justice	
ECON 1301	Principles and Policies	
ECON 2301	Principles of Economics I Macro	
ECON 2302	Principles of Economics II Micro	
FINC 2310	Intro to Consumer Finance	
INEN 2373	Engineering Economics	
PSYC 2301	General Psychology	
PSYC 2315	Lifespan Development	
POLS 1301	Intro to Political Science	
SOCI 1301	Introduction to Sociology	
SOWK 2361	Intro Social Work	
<i>Component Area Option - 6 Hours ¹</i>		
ENGL 1302	Composition II	3
MATH 2414	Calculus and Analytical Geometry II	4
Required Major Courses		
<i>Chemistry Requirements</i>		
CHEM 1111	General Chemistry I Laboratory	1
CHEM 1112	General Chemistry II Laboratory	1
CHEM 1311	General Chemistry I	3
CHEM 1312	General Chemistry II	3
CHEM 3111	Organic Chemistry I Laboratory	1
CHEM 3112	Organic Chemistry II Laboratory	1
CHEM 3131	Inorganic Chemistry I Laboratory	1
CHEM 3311	Organic Chemistry I	3
CHEM 3312	Organic Chemistry II	3
CHEM 3331	Inorganic Chemistry	3
CHEM 3401	Quantitative Analysis	4
CHEM 4131	Physical Lab	1
CHEM 4132	Physical Lab	1
CHEM 4141	Inorganic Chemistry II Laboratory	1
CHEM 4311	Physical Chemistry I	3
CHEM 4312	Physical Chemistry II	3
CHEM 4341	Inorganic	3
CHEM 4381	Chemical Communication	3
CHEM 4411	Biochemistry I	4
CHEM 4461	Instrumental Methods of Analysis	4
CHEM 4371	Intro Research	3
	or CHEM 4471 Introduction to Research	
Excess hours from core applied here		2
Electives		
<i>Chemistry Electives</i>		
Select a minimum of nine hours of CHEM electives ²		9

2 Chemistry (B.S.)

Other

MATH 2415	Calculus III	4
PHYS 2425	University Physics I	4
PHYS 2426	University Physics II	4
PHYS 3350	Modern Physics	3
Total Hours		120

1 Additional hours are applied to degree requirements below.

2 At the 3000 to 4000 level - requires advisor approval.

Course	Title	Hours
First Year		
Fall		
MATH 2413	Calculus and Analytical Geometry I	4
PHIL 1370	Philosophy of Knowledge	3
ENGL 1301	Composition I	3
COMM 1315	Public Speaking I	3
HIST 1301	U S History I 1763-1877	3
Hours		16
Spring		
MATH 2414	Calculus and Analytical Geometry II	4
ENGL 1302	Composition II	3
HIST 1302	U S History II Since 1877	3
Creative Art Core		3
Social and Behavioral Science Core		3
Hours		16
Second Year		
Fall		
CHEM 1311	General Chemistry I	3
CHEM 1111	General Chemistry I Laboratory	1
PHYS 2425	University Physics I	4
BIOL 1406 or GEOL 1403	General Biology I (Majors) or Geology I: Physical Geology	4
POLS 2301	Intro to American Government I	3
Hours		15
Spring		
CHEM 1312	General Chemistry II	3
CHEM 1112	General Chemistry II Laboratory	1
PHYS 2426	University Physics II	4
BIOL 1407 or GEOL 1404	General Biology II (Majors) or Geology II: Historical Geology	4
POLS 2302	Intro/American Government II	3
Hours		15
Third Year		
Fall		
MATH 2415	Calculus III	4
CHEM 3311	Organic Chemistry I	3
CHEM 3111	Organic Chemistry I Laboratory	1
CHEM 3331	Inorganic Chemistry	3
CHEM 3131	Inorganic Chemistry I Laboratory	1
CHEM 3401	Quantitative Analysis	4
Hours		16
Spring		
CHEM 3312	Organic Chemistry II	3
CHEM 3112	Organic Chemistry II Laboratory	1
CHEM 4371	Intro Research (or CHEM 4471)	3
PHYS 3350	Modern Physics	3
Chemistry Elective		6
Hours		16

Fourth Year

Fall		
CHEM 4311	Physical Chemistry I	3
CHEM 4131	Physical Lab	1
CHEM 4411	Biochemistry I	4
CHEM 4381	Chemical Communication	3
Chemistry Elective		3
Hours		14
Spring		
CHEM 4312	Physical Chemistry II	3
CHEM 4132	Physical Lab	1
CHEM 4341	Inorganic	3
CHEM 4141	Inorganic Chemistry II Laboratory	1
CHEM 4461	Instrumental Methods of Analysis	4
Hours		12
Total Hours		120