

Chemistry - Certified by the American Chemical Society, B.S.

This program qualifies a graduate for certification to the American Chemical Society as a chemist meeting the professional standards of that organization. Consult departmental chair for information on minor programs.

Course	Title	Semester Credit Hours
Freshman Year		
Semester 1		
BIOL 1306	Biology for Science Majors I	3
Communication		3
Rhetoric & Composition		3
MATH 1314	College Algebra	3
UNIV 1201	Learning in Global Context	2
Semester Credit Hours		14
Semester 2		
CHEM 1311 & CHEM 1111	General Chemistry I and General Chemistry I Lab	4
Rhetoric & Composition		3
MATH 1316	Trigonometry	3
Lang/Phil/Culture		3
Creative Arts		3
Semester Credit Hours		16
Sophomore Year		
Semester 1		
CHEM 1312 & CHEM 1112	General Chemistry II and General Chemistry II Lab	4
MATH 1348	Analytic Geometry	3
PHYS 1301 & PHYS 1101	College Physics I and Coll Physics I Laboratory	4
Government/Political Science		3
Semester Credit Hours		14
Semester 2		
CHEM 3323 & CHEM 3123	Organic Chemistry I and Organic Chemistry Lab I	4
MATH 2413	Calculus I	4
PHYS 1302 & PHYS 1102	College Physics II and College Physics II Lab	4
Government/Political Science		3
Semester Credit Hours		15
Junior Year		
Semester 1		
CHEM 2401	Inorg Quantitative Analysis	4
CHEM 3325 & CHEM 3125	Organic Chemistry II and Organic Chemistry Lab II	4
American History		3
MATH 2414	Calculus II	4
Semester Credit Hours		15
Semester 2		
CHEM 4421	Advanced Chemical Synthesis	4
ENGL 2311	Technical & Business Writing	3

American History		3
Elective, adv. ¹		3
Elective		3
Semester Credit Hours		16
Senior Year		
Semester 1		
CHEM 3331	Physical Chemistry I	3
CHEM 4131	Physical Chem Measurements I	1
CHEM 4181	Chemical Seminar	1
CHEM 4311 & CHEM 4111	Advance Inorganic Chemistry and Adv Inorganic Chemistry Lab	4
Social/Behavioral		3
Elective, adv. ¹		3
Semester Credit Hours		15
Semester 2		
CHEM 3332	Physical Chemistry II	3
CHEM 4132	Physical Chem Measurements II	1
CHEM 4181	Chemical Seminar	1
CHEM 4341	Biochemistry I	3
CHEM 4401	Mod Meth of Instrumental Anal	4
Elective		3
Semester Credit Hours		15
Total Credit Hours Required:		120

¹ Advanced Electives: Students select advanced CHEM courses from CHEM 3385, CHEM 4381, and CHEM 4385. Please note that CHEM 3385, CHEM 4381, and CHEM 4385 are variable-credit courses. CHEM 3385 and CHEM 4385 are writing intensive (WI) courses.