

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

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	General Biology I	3
CHEM 1311 & CHEM 1111	Gen Inorganic Chemistry I and Gen Inorganic Chem Lab I	4
ENGL 1301	Rhetoric and Composition	3
MATH 1348	Analytic Geometry	3
UNIV 1201	Learning in Global Context	2
Semester Credit Hours		15
Semester 2		
CHEM 1312 & CHEM 1112	Gen Inorganic Chemistry II and Gen Inorganic Chem Lab II	4
ENGL 1302	Rhetoric and Composition	3
MATH 2413	Calculus I	4
Communications		3
Semester Credit Hours		14
Sophomore Year		
Semester 1		
CHEM 3323 & CHEM 3123	Organic Chemistry I and Organic Chemistry Lab I	4
MATH 2414	Calculus II	4
PHYS 2325 & PHYS 2125	University Physics I and University Physics I Lab	4
POLS 2301	Government and Politics of US	3
Semester Credit Hours		15
Semester 2		
CHEM 3181	Chemical Literature	1
CHEM 3325 & CHEM 3125	Organic Chemistry II and Organic Chemistry Lab II	4
ENGL 2314	Technical Writing	3
PHYS 2326 & PHYS 2126	University Physics II and University Physics II Lab	4
POLS 2302	Government and Politics of TX	3
Semester Credit Hours		15
Junior Year		
Semester 1		
CHEM 2401	Inorg Quantitative Analysis	4
CHEM 3331	Physical Chemistry I	3
HIST 1301	American History to 1877	3
Creative arts		3
Elective, adv. ¹		3
Semester Credit Hours		16
Semester 2		
CHEM 3332	Physical Chemistry II	3

CHEM 4421	Advanced Chemical Synthesis	4
HIST 1302	American History since 1877	3
Lang/Phil/Culture		3
Elective		3
Semester Credit Hours		16
Senior Year		
Semester 1		
CHEM 4111	Adv Inorganic Chemistry Lab	1
CHEM 4131	Physical Chem Measurements I	1
CHEM 4311	Advance Inorganic Chemistry	3
CHEM 4341	Biochemistry I	3
Social/Behavioral		3
Elective, adv.		3
Semester Credit Hours		14
Semester 2		
CHEM 4132	Physical Chem Measurements II	1
CHEM 4181	Chemical Seminar	1
CHEM 4401	Mod Meth of Instrumental Anal	4
Elective, adv. ¹		3
Elective, adv. ¹		3
Elective, adv.		3
Semester Credit Hours		15
Total Credit Hours Required:		120

¹ Advanced Electives: Students select advanced CHEM courses from CHEM 3385, CHEM 3451, CHEM 4381, and CHEM 4385. Please note: CHEM 3385, CHEM 4381, and CHEM 4385 are variable-hour courses; CHEM 3385 and CHEM 4385 are WI courses.