

CHEMISTRY (APPROVED BY THE AMERICAN CHEMICAL SOCIETY), BS

Example Plan of Study

Finish in Four Plan of Study

The plan below is an **example** of how students can successfully complete degree requirements in four years. This suggested class schedule plan may be used as a guide and can be adjusted based on individual needs. Students are required to meet with an academic advisor prior to enrollment each semester to plan their class schedule, and students are ultimately responsible for completing all degree requirements.

Course	Title	Hours
Freshman		
Fall		
CHEM 1314	Chemistry I (LN)	4
MATH 2144	Calculus I (Q)	4
General Education, College/Departmental, and/or Elective courses		6
Hours		14
Spring		
CHEM 1515	Chemistry II (LN)	5
MATH 2153	Calculus II (Q)	3
BIOL 1113 & BIOL 1111 or BIOL 1114	Introductory Biology (N) or Introductory Biology (LN)	4
General Education courses		3
Hours		15
Sophomore		
Fall		
CHEM 3053	Organic Chemistry I	3
MATH 2163 or MATH 2233	Calculus III or Differential Equations	3
PHYS 2014	University Physics I (LN)	4
General Education, College/Departmental and/or Elective courses		6
Hours		16
Spring		
CHEM 3153	Organic Chemistry II	3
CHEM 3112	Organic Chemistry Laboratory	2
PHYS 2114	University Physics II (LN)	4
General Education, College/Departmental, and/or Elective courses		6
Hours		15
Junior		
Fall		
CHEM 2113	Principles of Analytical Chemistry	3
CHEM 2122	Quantitative Analysis Laboratory	2
CHEM 3433	Physical Chemistry I	3
General Education, College/Departmental and/or Elective courses		6
Hours		14
Spring		
BIOC 3653	Survey of Biochemistry	3
CHEM 3353 or CHEM 3363	Descriptive Inorganic Chemistry or Bioinorganic Chemistry	3
CHEM 3353 and CHEM 3363 offered every other spring semester		
Select one of the following:		5
CHEM 3553 & CHEM 3532	Physical Chemistry II and Physical Chemistry Laboratory	

CHEM 4023 & CHEM 4022	Modern Methods of Chemical Analysis and Modern Methods of Chemical Analysis Laboratory	
CHEM 3553 & CHEM 3532 and CHEM 4023 & CHEM 4022 offered every other spring semester		
CHEM 4433 & CHEM 4033 offered in alternating Spring semesters as alternatives to CHEM 3553 and CHEM 4023.		
General Education, College/Departmental, and/or Elective courses		5
Hours		16
Senior		
Fall		
CHEM 4322 or CHEM 4313	Advanced Organic Chemistry Laboratory or Medicinal Organic Chemistry	2
CHEM 4322 and CHEM 4313 offered every other fall semester		
CHEM 4333	Inorganic Chemistry I	3
CHEM 4990	Undergraduate Research in Chemistry	1
Elective courses		9
Hours		15
Spring		
Select one of the following:		5
CHEM 4023 & CHEM 4022	Modern Methods of Chemical Analysis and Modern Methods of Chemical Analysis Laboratory	
CHEM 3553 & CHEM 3532	Physical Chemistry II and Physical Chemistry Laboratory	
CHEM 4023 & CHEM 4022 and CHEM 3553 & CHEM 3532 offered every other spring semester		
CHEM 4433 & CHEM 4033 offered in alternating Spring semesters as alternatives to CHEM 3553 and CHEM 4023		
CHEM 4990	Undergraduate Research in Chemistry	1
Elective courses		9
Hours		15
Total Hours		120