

CHEMISTRY MAJOR - ACS CERTIFIED CURRICULUM

Plan of Study

Course	Title	Credits
First Year		
Fall		
CHEM 1171	General Chemistry I	3
CHEM 1171L	General Chemistry I Lab	1
MATH 1141 or MATH 1171	Calculus I for Chemistry, Engineering, and Physics Majors or Calculus I	4
PHYS 1171	General Physics I	3
PHYS 1171L	General Physics I Lab	1
Core Courses		6
Credits		18
Spring		
CHEM 1172	General Chemistry II	3
CHEM 1172L	General Chemistry II Lab	1
MATH 1142 or MATH 1172	Calculus II for Chemistry, Engineering, and Physics Majors or Calculus II	4
PHYS 1172	General Physics II	3
PHYS 1172L	General Physics II Lab	1
Core Courses		6
Credits		18
Second Year		
Fall		
CHEM 2271	Organic Chemistry I	3
CHEM 2271L	Organic Chemistry I Lab	1
MATH 2243 or MATH 2273	Calculus III for Chemistry, Engineering, and Physics Majors or Multivariable Calculus	4
Core Courses and Electives		9
Credits		17
Spring		
CHEM 2272	Organic Chemistry II	3
CHEM 2272L	Organic Chemistry II Lab	1
CHEM 2282	Chemical Analysis	3
CHEM 2282L	Chemical Analysis Lab	1
Core Courses and Electives		9
Credits		17
Third Year		
Fall		
CHEM 3326	Chemical Instrumentation ¹	3
CHEM 3361	Physical Chemistry I	3
CHEM 3361L	Physical Chemistry I Lab	1
MATH 2251	Ordinary Differential Equations	3
Core Courses and Electives		6
Credits		16

Spring

CHEM 3326L	Instrumental-Analytical Chemistry Lab ¹	3
CHEM 3362	Physical Chemistry II	3
CHEM 3362L	Physical Chemistry II Lab	1
Core Courses and Electives		9
Credits		16

Fourth Year

Fall

CHEM 3341	Advanced Inorganic Chemistry ¹	3
CHEM 3341L	Advanced Inorganic Chemistry Lab ¹	2
CHEM 4971	Research and Seminar I ²	3
Core Courses and Electives		9
Credits		17

Spring

CHEM 3323L or BIOL 3323L	Biochemistry Lab ¹ or Biochemistry Lab	1
CHEM 3324 or BIOL 3324	Biochemistry I ¹ or Biochemistry I	3
Core Courses and Electives		9
Credits		13
Total Credits		132

¹ May be taken either third or fourth year.

² 1-3 credits per semester. May be taken in fall, spring, or both semesters of the fourth year.