

Chemistry (B.S.)

Degree Type
B.S.

Objective: To prepare students for graduate study related to chemistry or the health/medical professions and also for employment in various areas of chemistry.

The senior project is completed by taking 450.

Satisfactory performance on departmental assessment exams is also required.

Students planning advanced study in chemistry should elect to take Physics 311 and other courses in consultation with the faculty advisor.

Students planning advanced study in health fields should elect to take Biology 117, 210 or 211, and other courses in consultation with the faculty advisor.

Item #	Title	Semester Hours
	Chemistry - Core Courses	17
CHEM 221	Analytical Chemistry	4
CHEM 230	Intro. to Inorganic Chemistry	3
	CHEM 240 or CHEM 430X	3
CHEM 312	Physical Chemistry I	3
CHEM 313	Physical Chemistry II	3
CHEM 330	Advanced Laboratory	4
CHEM 450	Senior Seminar	1
	CHEM 460 or CHEM 490	1-4

Two courses from:

Item #	Title	Semester Hours
CHEM 320	Materials Science	3
CHEM 350	Special Topics	4
CHEM 422	Instrumental Analysis	3
CHEM 433	Advanced Organic Chemistry	3

Contextual & Support Requirements

Item #	Title	Semester Hours
MATH 151	Calculus I	4
MATH 152	Calculus II	4
	MATH 253 or STAT 161	4
PHYS 201	General Physics I	4
PHYS 202	General Physics II	4
	Total Credits	65-70

Chemistry - Core Courses

Elective Credits 17

Item #	Title	Semester Hours
CHEM 111	General Chemistry I	4
CHEM 111L	General Chemistry Lab	0
CHEM 112	General Chemistry II	4
CHEM 112L	General Chemistry II Lab	0
CHEM 211	Organic Chemistry I	4
CHEM 212	Organic Chemistry II	4
CHEM 351	Junior Seminar	1

CHEM 240 or CHEM 430X

Elective Credits 3

Choose One

Item #	Title	Semester Hours
CHEM 240	Intro. to Biochemistry	3
CHEM 430X	Biochemistry	4

CHEM 460 or CHEM 490

Elective Credits 1-4

Item #	Title	Semester Hours
CHEM 460	Independent Study	4
CHEM 490	Honor Project	3

MATH 253 or STAT 161

Elective Credits 4

Item #	Title	Semester Hours
MATH 253	Calculus III	4
STAT 161	Introduction to Statistics	4