
Chemistry Major (B.S.)

48-49 credit hours required

Required Courses:		Credits
CHEM 105	General Chemistry 1: Lecture and Lab	4
CHEM 106	General Chemistry 2: Lecture and Lab	4
CHEM 308	Chemistry Topics	1
CHEM 309	Seminar in Chemistry	1
CHEM 311	Quantitative Analysis: Lecture and Lab	4
CHEM 341	Organic Chemistry 1: Lecture and Lab	4
CHEM 342	Organic Chemistry 2: Lecture and Lab	4
CHEM 415	Instrumental Analysis: Lecture and Lab	4
CHEM 425	Biochemistry 1: Lecture and Lab	4
CHEM 433	Inorganic Chemistry	3
CHEM 434	Inorganic Chemistry Lab	1
CHEM 451	Physical Chemistry 1: Lecture and Lab	4
CHEM 452	Physical Chemistry 2: Lecture and Lab	4
CHEM 497	Research Problems	3
	Advanced Chemistry Elective	3-4

Approved Advanced Chemistry Electives:

CHEM 426	Biochemistry 2: Lecture and Lab	4
CHEM 444	Advanced Organic Chemistry	3
CHEM 448	Advanced NMR Spectroscopy	3
CHEM 480	Advanced Analytical Chemistry	3
CHEM 495	Special Topics (with permission)	3
CHEM 497	Research Problems	3

Cognate Requirements:

MATH 151	Calculus I	4
MATH 152	Calculus II	4
MATH 253	Multivariate Calculus	4
	or	
PHYS 370	Mathematical Physics	3
PHYS 103*	University Physics I, Lecture and Lab	4
PHYS 204	University Physics II, Lecture and Lab	4

*With the permission of the chair, PHYS 101, 102 may be substituted for PHYS 103, 204.

Special Notes:

1. Students graduating with a chemistry major (B.S.) must complete 45 credit hours in the major with at least a 2.0 in each course.
2. The Chemistry major (B.S.) fulfills the requirements for an American Chemical Society (A.C.S.) certified degree.
3. Students interested in the Chemical Engineering Double Degree Program should initiate contact with the Chemistry Department as soon as possible.
4. Since both calculus and physics are prerequisites for CHEM 451 and 452, students considering chemistry, biochemistry, medicine and related fields are urged to start the cognate sequences as soon as possible.
5. Students may not double major in Chemistry and Biochemistry.