

Bachelor of Science with a Major in Chemistry Degree General Option

This degree has as its core a number of fundamental courses in chemistry and allows for students with interests in additional fields to build a broad based curriculum. Combining this degree with a minor or second major prepares students for a variety of career opportunities in addition to laboratory positions and include the following: with business – technical sales; with biology or geology – environmental studies, industrial hygiene; with political science followed by law school – patent law; with education – middle school or high school teaching.

Upon completion of the following degree tracks the student will have acquired:

- competence in the basic content of organic, inorganic, physical, analytical, biochemistry, and biology;
- the ability to carry out experimental protocols and analyze and interpret data;
- the ability to communicate effectively in both oral and written presentations;
- proficiency in the use of appropriate computer applications and information technology as applied to chemistry;
- adequate preparation to compete successfully in a science-related career or entering professional school;
- an understanding of the impact of chemistry in a global/societal context.

Requirement	Hours
Core areas A, B, C, D, and E on page Error! Bookmark not defined.)	42

Core Area A must include MATH 1113*(*1 hr moved to Area F)

Core Area C: foreign language is recommended.

Core Area D must include MATH 1634* (*1 hr moved to Area F)
PHYS 1111 or 2211 and PHYS 1112 or 2212.

Core Area F: Courses specific for the major	18
CHEM 1211 with 1211L	4
CHEM 1212 with 1212L	4
MATH 2644	4
CHEM 2411 and 2411L	4
Math credit from Area A and D	2

Requirements for the Major	27
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Courses from the major:

CEM 2310	1
CHEM 3422 and 3422L	4
CHEM 3310K	4
CHEM 3510 or 3521 or 3522	3
CHEM 4610	3
CHEM 4711	3
CHEM 4910L	3
CHEM electives (3000 or above)	6

Supporting Courses and/or Minor Discipline Courses	33
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(refer to catalogue) 33 hrs with minimum of 13 hrs of
3000 or above)

TOTAL	120
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General Restrictions: No D's are permitted in a major course. A maximum of 4 hours of research is allowed in the degree program. Must complete 6 hours of 3000/4000level W- courses where at least one is a chemistry course and the other may be a course that is in the major program.

Recommended Plan of Study for General Track

This semester-wise plan is designed to ensure that students take Chemistry courses and their pre-requisites and other required courses in a timely fashion to graduate in four years.

FRESHMAN FALL		FRESHMAN SPRING	
CHEM 1211 – Principles of Chem I	4	CHEM 1212 - Principles of Chem II	4
MATH 1113 – PreCalculus	4	MATH 1634 – Calculus I	4
ENGL 1101 – English Composition I	3	ENGL 1102 – English Composition II	3
Minor Course (Intro level)	3	Minor course (Intro Level)	3
Total	14	Total	14

SOPHOMORE FALL		SOPHOMORE SPRING	
CHEM 2411/2411L – Organic Chem I	4	CHEM 3422/3422L – Organic Chem II	4
MATH 2644 – Calculus II	4	CHEM 2130 – Chem Soph Seminar	1
CHEM 3310 – Analytical Chemistry	4	Minor Course	4
Core C1	3	Core C2	3
		Core E1 (World History)	3
Total	15	Total	15

JUNIOR FALL		JUNIOR SPRING	
CHEM 4711 – Biochemistry	3	CHEM Elective	3
PHYS 1111 OR 2211	4	PHYS 1112 OR 2212	4
Minor Course > 3000	4	Minor Course > 3000	3
Core E3 (POLS 1101 American Gov.)	3	Core B1 (PHIL 2110 – Critical Thinking)	3
Elective > 3000	3	Core B2	1
Total	17	Total	14

SENIOR FALL		SENIOR SPRING	
CHEM 3510 – Survey of Physical Chemistry	3	CHEM 4610 – Inorganic Chemistry	3
CHEM Elective	3	Minor course > 3000	3
CS 1300 or MATH 2063	4	Core (US History)	3
Elective	3	Core (Area E4)	3
Minor Course > 3000	3	Elective > 3000	3
Total	16	Total	15

Click on course number to link to the respective chemistry course description and prerequisites.