

Chemistry (B.S.)

The chemistry undergraduate major gives a solid preparation for further study in medicine and dentistry. It is also a desirable major for students who later choose to pursue law or business administration. The broad requirements in physics and mathematics provide a strong background for a career in the teaching of science. In general, chemists are employed in chemical manufacturing, pharmaceutical manufacturing, the petrochemical industries, teaching, environmental and waste management, and in government.

Freshman Year First Semester

Item #	Title	Credits
CHEM 003	Gen Chemistry I	4
CHEM 005	Gen Chem Lab I	1
	Humanities/Soc. Sci. Elective	3
FRSM 001	Freshman Seminar	1
MATH 007	Precalculus	4
	Sub-Total Credits	17

Freshman Year Second Semester

Item #	Title	Credits
CHEM 004	Gen Chemistry II	4
CHEM 006	General Chem Lab II	1
MATH 156	Calculus I	4
ENGW 103	Persuasive Writing & Research	3
	Humanities/Soc. Sci. Elective	3
	Health Education Requirement (Options: Courses under subject code HHPL)	1
	Sub-Total Credits	16

Sophomore Year First Semester

Item #	Title	Credits
MATH 157	Calculus II	4
CHEM 141	Organic Chemistry I (Lecture)	3
	Humanities/Soc. Sci. Elective	3
	Experiential Learning	3
	Intercultural Knowledge / World Language	3
	Sub-Total Credits	16

Sophomore Year Second Semester

Item #	Title	Credits
CHEM 142	Organic Chemistry II	3
CHEM 145	Organic Chem Lab	3
MATH 158	Calculus III	4
	Intercultural Knowledge / World Language	3
	Physical Education (Sports Activity Course)	1
	Sub-Total Credits	14

Junior Year First Semester

Item #	Title	Credits
	Physics I Lecture & Lab	5
CHEM 122	Analytical Chemistry	3
CHEM 123	Analytical Chemistry Lab	2
CHEM 151	Biochemistry I	3
	Intercultural Knowledge / World Language	3
	Sub-Total Credits	16

Junior Year Second Semester

Item #	Title	Credits
	Physics II Lecture and Lab	5
CHEM 126	Instr Methods of Analysis	3
CHEM 127	Instr Methods of Analysis Lab	2
	Oral Communication	3
	Sub-Total Credits	15

Senior Year First Semester

Item #	Title	Credits
CHEM 171	Physical Chemistry I	3
CHEM 173	Physical Chem Lab I	2
CHEM 101	Inorganic Chemistry	3
	General Electives	3
	African Diasporic Cluster	3
	Sub-Total Credits	14

Senior Year Second Semester

Item #	Title	Credits
CHEM 172	Physical Chemistry II	3
CHEM 174	Physical Chemistry Lab II	2
	General Elective (Options: To be determined in consultation with advisor) (3)	3
	General Electives (Options: To be determined in consultation with advisor) (4)	4
	Sub-Total Credits	12
	Total credits:	120

Category Descriptions

Humanities/Soc. Sci. Elective

Health Education Requirement (Options: Courses under subject code HHPL)

Experiential Learning

Intercultural Knowledge / World Language

Physical Education (Sports Activity Course)

Physics I Lecture & Lab

PHYS 013	Phys for Sci & Engr Lec I	3
PHYS 023	Phys for Sci & Engr Lab I	1
PHYS 001	General Physics Lec-Rec-Lab I	5

Physics II Lecture and Lab

PHYS 014	Phys for Sci & Engr Lec II	3
PHYS 002	General Physics I (Laboratory)	5

Oral Communication

General Electives

African Diasporic Cluster

	African Studies Elective (Options: Courses under subject code AFST)	3
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General Elective (Options: To be determined in consultation with advisor) (3)

General Electives (Options: To be determined in consultation with advisor) (4)