

Catalog Year: 2026-2027

Major: Chemistry

Concentration: Pure Chemistry

Course	Cr. Hrs.	Course	Cr. Hrs.
FIRST YEAR			
Semester: Fall	Total Credit Hours:	Semester: Spring	Total Credit Hours:
CHEM 1110 General Chemistry I	4	CHEM 1120 General Chemistry II	4
CHEM 1500 First Year Interactions and Advisement	1	MATH 1920 Calculus II	4
MATH 1910 Calculus I	4	Composition GE Credit	3
Composition GE Credit	3	Social & Behavioral Science GE Credit	3
Social & Behavioral Science GE Credit	3		

Course	Cr. Hrs.	Course	Cr. Hrs.
SOPHOMORE YEAR			
Semester: Fall	Total Credit Hours:	Semester: Spring	Total Credit Hours:
CHEM 2010 Intro to Inorganic	3	CHEM 3020 Organic Chemistry II	4
CHEM 2910 Undergraduate Research Methods I	1	MATH/PHYS Elective*	3
CHEM 3010 Organic Chemistry I	4	PHYS 2120 Calculus-based Physics II	4
MATH 2110 Calculus III	4	Digital & Financial Literacy GE Credit	3
PHYS 2110 Calculus-based Physics I	4	Humanities & Cultural Expression GE Credit	3

Course	Cr. Hrs.	Course	Cr. Hrs.
JUNIOR YEAR			
Semester: Fall	Total Credit Hours:	Semester: Spring	Total Credit Hours:
CHEM 3410 Quantitative Analysis	4	CHEM 3520 Physical Chemistry II	4
CHEM 3510 Physical Chemistry I	4	Historical Foundations GE Credit	3
Historical Foundations GE Credit	3	Oral Communication GE Credit	3
Humanities & Cultural Expression GE Credit	3	Elective	5

Course	Cr. Hrs.	Course	Cr. Hrs.
SENIOR YEAR			
Semester: Fall	Total Credit Hours:	Semester: Spring	Total Credit Hours:
CHEM 4210 Chemistry of Polymers	3	CHEM 4110 Inorganic Chemistry	3
CHEM 4520 Instrumental Analysis	4	CHEM 4150 Inorganic Chemistry Lab	1
CHEM 4610 General Biochemistry I	3	Advanced Chemistry Electives**	6
CHEM 4920 Chemistry Seminar	3	CHEM 4991 Undergraduate Research	1
Electives	3	Electives	2

*Chosen from: MATH 2010, 2120, 3070, or PHYS 2920

**Chosen from: CHEM 4310, 4320, 4410, 4620, 4650, 4710, 4720, 4980, 4991/4992/4993

total hours from CHEM 4991/4992/4993 cannot exceed 4 hours