

## 2024-2025

## CHEMISTRY MAJOR, B.A.

Science & Health Department; Shaw School of Sciences

Chemistry is a branch of the physical sciences involving the study of matter and its changes. It focuses on the composition, characteristics, changes, and uses of substances and energy. It also explores the benefits and dangers of those substances to people. The chemistry major provides students with experience in each of the sub disciplines of chemistry: inorganic, organic, analytical, biological and physical. Employment opportunities in chemistry are excellent. Qualified, creative graduates find employment in many areas, including teaching, research in virtually any industry, law enforcement, healthcare, or in environmental science. Excellent fellowships and assistantships are available for those going on to graduate school.

To graduate must complete all major requirements, foundational requirements, and additional electives needed for 124 hour minimum degree requirement.

## **MAJOR REQUIREMENTS (64)**

**Cross-Disciplinary Requirements (29)** 

			101101113 (23)	
3	BIO	201	General Biology I	
3	BIO	202	General Biology II	
1	BIO	203	General Biology Lab I	
1	BIO	204	General Biology Lab II	
1 1 2	BIO	341	Ethical Issues	
4	MAT	181	Calculus I La	b
4	MAT	182	Calculus II La	b
4	PHY	201	Intro Physics I La	b
4	PHY	202	Intro Physics II La	b
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3	PSY	315	Stats for Behavioral Science	е
		irements		
3	CHE	121	Gen College Chemistry I	
3	CHE	122	Gen College Chemistry II	
1	CHE	123	Gen College Chemistry Lat	١c
1 3 3	CHE	124	Gen College Chemistry Lat	o II
3	CHE	221	Organic Chemistry I	
3	CHE	222	Organic Chemistry II	
1	CHE	223	Organic Chemistry Lab I	
1	CHE	224	Organic Chemistry Lab II	
1 1 4	CHE	321	Analytical Chemistry La	ab
3	CHE	361	Biochemistry	
_3 _1	CHE	363	Biochemistry Lab	
3	CHE	382	Inorganic Chemistry	
3 1 2	CHE	399	Intro to Chem Research	
2	CHE	400	Senior Research	
4			Physical Chemistry Lal	<b>L</b>
	CHE	421	FIIVSICAL CHEIHISHV LAI	U

## **PLUS FOUNDATIONS REQUIREMENTS (49)**

(3 hours Math and 4 hours Science satisfied by required major courses.)

Plus electives needed for the 124 hour degree requirement (11)

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