## 2018-2019

## CHEMISTRY MAJOR, B.A.

Science & Health Department; School of Science, Health & Mathematics

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 (57-67) (54 Core + 3-13 Concentration)

2	BIO	341	Ethical Issues	REQUIRED CONCENTRATION (choose one):			
	2.0	• • •		CHEST - STANDARD TRACK (3)			
3	CHE	121	Gen College Chemistry I		CHE	399	Intro to Chem Research
3	CHE	122	Gen College Chemistry II	_1 _2	CHE	400	Senior Research
1	CHE	123	Gen College Chemistry Lab I				
1	CHE	124	Gen College Chemistry Lab II	CHEAC - ADVANCED TRACK (13)			
4	CHE	201	Organic Chemistry Lab	3	CHE	382	Inorganic Chemistry
4	CHE	202	Organic Chemistry Lab	3 3 4 3	CHE	435	Internship
4	CHE	321	Analytical Chemistry Lab	4	MAT	183	Calculus III Lab
$-\frac{3}{4}$	CHE	322	Chemical Instrumentation Lab	3	MAT	252	Diff Equations/Modeling
3114443441	CHE	421	Physical Chemistry Lab				
4	CHE	422	Physical Chemistry Lab Senior Seminar				
'	CHE	475	Senior Seminar				
4	MAT	181	Calculus I Lab				
$-\frac{4}{4}$	MAT	182	Calculus II Lab				
Choose one:							
4	BIO		Cell & Molecular Biology Lab				
	CHE	371	Biochemistry Lab				
Complete one:							
4-5	PHY	201	Intro Physics I Lab				
0	PHY	211	General Physics I	PLUS F	OUNDAT	IONAL RE	EQUIREMENTS (39)
			Lab Recitation				Science satisfied by required major
				courses			
Complete one:							
4-5	PHY	202	Intro Physics II Lab	Plus ele	ctives ne	eded for	the 124 hour degree requirement (18-
	PHY	212	General Physics II	28, depending on Concentration)			
			Lab Recitation		J		•