



**Chemistry (CHEM)**

**Major Electives**

Code	Title	Credits	Prerequisites	Corequisites
	Elective	3		
	Elective	3		
	Elective	3		
Total		9		

**Core Requirements**

Code	Title	Credits	Prerequisites	Corequisites
BMKT300	Marketing Theory and Principles	3		ENGL201
CHEM200	General Chemistry	3	ENGL101 - CHEM160	CHEM200L
CHEM200L	General Chemistry Lab	1	ENGL101 - CHEM160	CHEM200
CHEM250	Organic Chemistry I	3	ENGL051 - ENGL101 - CHEM200	
CHEM260	Analytical Chemistry	3	CHEM200	CHEM260L
CHEM260L	Analytical Chemistry Lab	1	CHEM200	CHEM260
CHEM300	Organic Chemistry II	3	ENGL051 - ENGL101 - CHEM250	
CHEM300L	Organic Chemistry Lab	2	ENGL051 - ENGL101 - CHEM250	
CHEM310	Physical Chemistry I	3	CHEM200	CHEM310L
CHEM310L	Physical Chemistry I Lab	1	CHEM200	CHEM310
CHEM360	Physical Chemistry II	3	CHEM310	
CHEM370	Inorganic Chemistry I	3	CHEM200	CHEM370L
CHEM370L	Inorganic Chemistry I Lab	1	CHEM200	CHEM370
MATH210	Calculus II	3	MATH161 - MATH160	
MATH245	Statistics for Health Sciences	3	ENGL051 - ENGL101 - ENGL151	
MATH270	Ordinary Differential Equations	3	MATH210	MATH225
PHYS250	Thermodynamic and Waves	3	PHYS161 - MATH161 - ENGL051 - MATH160 - PHYS160	
PHYS280	Electricity and Magnetism	3	PHYS161 - MATH161 - PHYS160 - MATH160	
Total		45		

**Major Requirements**

Code	Title	Credits	Prerequisites	Corequisites
CHEM350	Organic Chemistry III	3	CHEM300	CHEM350L
CHEM350L	Organic Chemistry Lab III Lab	1		CHEM350
CHEM400	Inorganic Chemistry II	3	CHEM370	
CHEM410	Structure Determination of Compounds	3	CHEM300	
CHEM420	Industrial Chemistry	3	CHEM300 - CHEM310	
CHEM430	Instrumental Chemistry	3	CHEM260	
CHEM465	Environmental Chemistry	3	CHEM300	
CHEM480	Senior Project in Chemistry	3	CHEM370 - CHEM350 - CHEM310	
CHEM490	Modern Topics in Chemistry	2	CHEM310 - CHEM300	
Total		24		

**General Education Requirements**

<b>Code</b>	<b>Title</b>	<b>Credits</b>	<b>Prerequisites</b>	<b>Corequisites</b>
ARAB200	Arabic Language and Literature	3		
CSCI200	Introduction to Computers	3	ENGL051	
CULT200	Introduction to Arab - Islamic Civilization	3		
ENGL201	Composition and Research Skills	3	ENGL151	
ENGL251	Communication Skills	3	ENGL201	
Total		15		

### General Education Electives

<b>Code</b>	<b>Title</b>	<b>Credits</b>	<b>Prerequisites</b>	<b>Corequisites</b>
	Elective	3		
	Elective	3		
Total		6		

### Major Elective Courses

<b>Code</b>	<b>Title</b>	<b>Credits</b>	<b>Prerequisites</b>	<b>Corequisites</b>
BIOC300	Biochemistry I (General)	4	CHEM250	
BMED450	Clinical Chemistry	3	BIOC300	
EDIT250	Educational Technology for Teachers	3	CSCI200	
FDSC370	Food Chemistry	3	CHEM250	
FDSC420	Food Processing	3	CHEM250	
MATH225	Linear Algebra with Applications	3	MATH161-MATH160	
MATH265	Introduction to Linear Algebra	3	MATH161-MATH160	
MATH330	Partial Differential Equations	3	MATH270	
PHYS340	Modern Physics	3	PHYS250	