

Degree Requirements - BS Chemistry

Major Requirements (70-71 hours required)

CHEM 211, 212 (4,4)*	General Chemistry I and II	8
CHEM 313, 314 (3,3)	Organic Chemistry I and II	6
CHEM 315, 318 (2,2)	Organic Chemistry Lab I and II	4
CHEM 321 (4)	Elementary Quantitative Analysis	4
CHEM 331, 332 (3,3)	Physical Chemistry I and II	6
CHEM 336, 337 (2,2)	Physical Chemistry Lab I and II	4
CHEM 441	Properties and Bonding of Inorganic Compounds	3
CHEM 445	Inorganic Preparations and Techniques	2 or
CHEM 465	Biochemistry Lab	
CHEM 463	General Biochemistry	4
CHEM Elective		3

Two In-Depth courses(6 credits) from the following:		6
CHEM 422 (3)	Instrumental Analysis	
CHEM 427 (3)	Aquatic Environmental Chemistry	
CHEM 438 (3)	Atmospheric Chemistry	
CHEM 446 (3)	Bioinorganic Chemistry	
CHEM 458 (3)	Chemical Oceanography	
CHEM 464 (3)	General Biochemistry II	
CHEM 467 (3)	Chemistry of Enzyme-Catalyzed Reactions	
CHEM 468 (3)	Biorganic Chemistry	

1-2 credits(40 lab hours) from the following:		1-2
CHEM 423 (2)	Instrumental Analysis	

	Laboratory (90 hours)	
CHEM 355 (1-3)	Undergraduate Research (45-135 hours)	
CHEM 451/452 (1-3)	Special Projects in Chemistry (45-135 hours)	
CHEM 455/456 (3/3)	Honors Research in Chemistry (145 hours)	
	Total	51-52

MATH 113, 114 (4,4)**	Analytic Geometry and Calculus I and II	8
MATH 213	Analytic Geometry and Calculus III	3

PHYS 160, 260(3,3)	University Physics I and II	6
PHYS 161, 261 (1,1)	College Physics Lab I and II	2
	Total	19

*satisfies Natural Science requirement

**satisfies Quantitative Reasoning requirement

General Education (30 Hours)

Written Communication	ENGL 101, 302(3,3)	6
Oral Communication	COMM 100,101, or 104	3
Literature (view list)		3
Information Technology	IT 103	3
Western Civilization	HIST 100	3
Fine Arts		3
Social/Behavioral Science (view list)		3
Global Understanding (view list)		3
Synthesis (view list)		3

Electives: 19-20 hours

Upper division hours \geq 45

Minimum Hours to Graduate: 120