Degree Requirements - Chemistry BS Analytical and Environmental Concentration

Major Requirements (78 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 422	Instrumental Analysis	3
CHEM 423	Instrumental Analysis Lab	2
CHEM 427	Aquatic Environmental Chemistry	3
CHEM 438	Atmospheric Chemistry	3
CHEM 441	Properties and Bonding of Inorganic Compounds	3 **or**
CHEM 446	Bioinorganic Chemistry	
CHEM 458	Chemical Oceanography	3
CHEM 459	Chemical Oceanograph Lab	1
CHEM 445	Inorganic Preparations and Techniques	2 **or**
CHEM 465	Biochemistry Lab	
CHEM 463	General Biochemistry	4
	Total	**56**

Science Electives(a minimum of 7 credits) from:	**7**	
GEOL 101 (4)	Introductory Geology and	
GEOL 309 (3)	Introduction to Oceanography	
	Or	
EVPP 110 (4)	Introduction to Environmental Chemistry I	
EVPP 111 (4)	Introduction to Environmental Chemistry II	
	Or	

CHEM 341 (3)	Fundamental Inorganic Chemistry	
CHEM 355 (1-3)	Undergraduate Research and	
CHEM 451/452 (1-3, 1-3)	Special Projects in Chemistry	

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)	University Physics Lab I and II	2
	Total	**19**

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: 8 hours

Upper division hours >=45
Minimum Hours to Graduate: 120