CHEMISTRY - BIOCHEMISTRY EMPHASIS REQUIREMENTS (BA/BS)

Code	Title	Units
Major Requirements - 53 units		
CHEM 102	GENERAL CHEMISTRY I	5
CHEM 104	GENERAL CHEMISTRY II	5
CHEM 184	INTRODUCTION TO CHEMISTRY	1
CHEM 251	ORGANIC CHEMISTRY - I	3
CHEM 260	INORGANIC CHEMISTRY	4
CHEM 261	ORGANIC CHEMISTRY LABORATORY	2
CHEM 352	QUANTITATIVE ANALYSIS	5
CHEM 370	PHYSICAL CHEMISTRY - QUANTUM MECHANICS IN CHEMISTRY	3
CHEM 454	BIOCHEMISTRY OF MACROMOLECULES	3
CHEM 456	BIOCHEMISTRY OF METABOLISM AND SIGNALING	3
CHEM 458	ADVANCED BIOCHEMISTRY LABORATORY	2
CHEM 484	TOPICS IN CHEMISTRY	1
Select one of the following:		10
PHYSCS 180 & PHYSCS 181	PHYSICS FOR SCIENTISTS AND ENGINEERS I and PHYSICS FOR SCIENTISTS AND ENGINEERS II	
PHYSCS 140 & PHYSCS 141	PRINCIPLES OF PHYSICS I and PRINCIPLES OF PHYSICS II	
Select 6 units from the following (at least one course must come from Group A):		6
Group A:		
CHEM 262	ORGANIC CHEMISTRY LABORATORY - INTERMEDIATE	
CHEM 470	EXPERIMENTAL PHYSICAL CHEMISTRY - QUANTUM MECHANICS IN CHEMISTRY	
CHEM 471	EXPERIMENTAL PHYSICAL CHEMISTRY - THERMODYNAMICS AND KINETICS	
CHEM 480	INSTRUMENTAL METHODS OF ANALYSIS	
CHEM 498R	INDEPENDENT STUDY - UNDERGRADUATE RESEARCH	
BIOLOGY 254	BIOTECHNOLOGY LABORATORY METHODS I	
BIOLOGY 311	MICROBIOLOGY	
BIOLOGY 345	ANIMAL PHYSIOLOGY	
BIOLOGY 364	BIOTECHNOLOGY LABORATORY METHODS II	
BIOLOGY 457	WILDLIFE ECOLOGY	
BIOLOGY 341	DEVELOPMENTAL BIOLOGY	
BIOLOGY 450	INTRODUCTORY ENTOMOLOGY	
Group B:		
CHEM 252	ORGANIC CHEMISTRY - II	
CHEM 371	PHYSICAL CHEMISTRY - THERMODYNAMICS AND KINETICS	
CHEM 455	ADVANCED ORGANIC CHEMISTRY	
BIOLOGY 363	MOLECULAR BIOLOGY	
BIOLOGY 412	IMMUNOLOGY	
BIOLOGY 442	ENVIRONMENTAL TOXICOLOGY	
BIOLOGY 446	ORGANIC EVOLUTION	
BIOLOGY 448	BIOINFORMATICS	
Total Units		**53**

Code	Title	Units
Unique Requirements - 26 units		
BIOLOGY 141	INTRODUCTORY BIOLOGY I	5
BIOLOGY 142	INTRODUCTORY BIOLOGY II	5
BIOLOGY 251	INTRODUCTION TO GENETICS	4
BIOLOGY 253	INTRODUCTION TO CELL BIOLOGY	3
MATH 253	CALCULUS AND ANALYTIC GEOMETRY I	5
MATH 254	CALCULUS AND ANALYTIC GEOMETRY II	4
Total Units		**26**

Milestones: (Periodic assessment test required)

Milestones: Major Field Exam and Exit Interview