

**BACHELOR OF SCIENCE (BS) DEGREE IN CHEMISTRY, FIELD MAJOR BIOCHEMISTRY**

**General Requirements:** Total hours for graduation 120 minimum, overall GPA 2.0 minimum, GPA for major 2.0.

**Must meet with Chemistry Advisor upon declaration of major.**

**Requirements For Major (and their necessary prerequisites):**

**Grade Hrs**

			Grade	Hrs
ALL	CHEM 211	General Chemistry I (5)		
ALL	CHEM 212	General Chemistry II (5)		
ALL	CHEM 531	Organic Chemistry I (5)		
FL & SP	CHEM 532	Organic Chemistry II (5)		
FL	CHEM 523	Analytical Chemistry (4)		
FL	CHEM 662	Biochemistry I (3)		
SP	CHEM 663	Biochemistry II (3)		
SP	CHEM 664	Biochemistry Laboratory (3)		
FL	B or C 666	Special Topics in Biochemistry (3)		
ALL	B or C 669	Research in Biochemistry (2) (2) (two enrollments)		
FL & SP	BIOL 210	General Biology I (4)		
FL & SP	BIOL 211	General Biology II (4)		
FL	BIOL 419	Genetics (4)		
SP	BIOL 420	Molecular Cell Biology (4)		
ALL	MATH 111	College Algebra (3)	Either both	
ALL	MATH 123	College Trigonometry (3)	and	
ALL	MATH 112	Pre-calculus Mathematics (5) or equivalent	or 242	
ALL	PHYS 213	General College Physics I (5)		
FL & SP	PHYS 214	General College Physics II (5)		

Additional courses to satisfy the General Education Program requirements and the BS graduation requirements in Fairmount College of Liberal Arts and Sciences. Twenty-one (21) hours, minimum, of biochemistry electives, most likely to be chosen from the following:

FL	CHEM 514	Inorganic Chemistry (3)		
SP	CHEM 524	Instrumental Methods of Chemical Analysis (4)		
FL	CHEM 545*	Physical Chemistry I (3) *Prereq MATH 344		
SP	CHEM 546*	Physical Chemistry II (3) *Prereq MATH 344		
FL	CHEM 605	Medicinal Chemistry (3)		
FL	BIOL 330	General Microbiology (5)		
	BIOL 526	Endocrinology (4)		
SP	B 534-535	Mammalian Physiology (3) & Laboratory (2)		
FL	BIOL 540	Developmental Biology (4)		
SP	BIOL 590	Immunobiology (3)		
FL	BIOL 730	Cancer Biology (3) odd years only		
SP	BIOL 760	Experimental Molecular Biology (4)		
SP	BIOL 780	Molecular Genetics (3)		
ALL	MATH 242	Calculus I (5)		
ALL	MATH 243	Calculus II (5)		
ALL	MATH 344	Calculus III (3)		
ALL	B or C 669	Research in Biochemistry (2) (One additional semester)		

**Total Hours Completed** 0  
**Major GPA**

**Contact the Chem. Office to arrange an advising appointment (978-3120, 206 McKinley Hall)**

Dr. Douglas S. English, Chairperson  
Department of Chemistry