

**SAMPLE FOUR-YEAR PLAN FOR BIOCHEMISTRY**

For academic year 2014/2015

Updated: July 2013

**JANUARY TERM**

<b>Students are required to complete a minimum of two January terms.</b>		<b>CR</b>
Intensive Science Research Experience (CHE 200)		3
Elective course		3

**FRESHMAN YEAR**

FALL SEMESTER		SPRING SEMESTER	
Title	CR	Title	CR
General Chemistry I (CHE 111)	4	Organic Chemistry I (CHE 233)	4
Principles of Biology I (BIO 115)	4	Calculus of One Variable I (MAT 150)	4
Modes of Inquiry (LIB 100)	3	Speaking requirement (LIB 110)	3
Writing requirement (LIB 105 or ENG 111)	3	<i>Elective</i>	4

**SOPHOMORE YEAR**

FALL SEMESTER		SPRING SEMESTER	
Title	CR	Title	CR
Organic Chemistry II (CHE 234)	4	General Chemistry II (CHE 112)	4
Elements of Physics I (PHY 210) or Physics for Scientists & Engineers (PHY 223)	4-5	Elements of Physics II (PHY 211) or Physics for Scientists & Engineers (PHY 224)	4-5
Experimental Design & Biostatistics (BIO 279)	3	Genetics (BIO 250)	3
Democracy & Global Diversity (LIB 220)	3	Catholic tradition (LIB 130 or 135)	3

**JUNIOR YEAR**

FALL SEMESTER		SPRING SEMESTER	
Title	CR	Title	CR
Intro Biochemistry (CHE 335)	4	Advanced Biochemistry (CHE 448)	4
Junior Seminar (CHE 389)	1	Junior Seminar (CHE 389)	0
Advanced General Education course	3-4	Cell & Molecular Biology (BIO 410)	4
Vertebrate Physiology (BIO 420)	3	Advanced General Education course	3-4
		Advanced General Education course	3-4

**SENIOR YEAR**

FALL SEMESTER		SPRING SEMESTER	
Title	CR	Title	CR
Quantitative Analysis (CHE 225)	4	Biophysical Chemistry (CHE 350)	4
Senior Seminar (CHE 489)	1	Senior Seminar (CHE 489) / Thesis Completion	0
Biology Elective	4	Human Anatomy (BIO 365)	4
Advanced General Education cluster	6-7	Portfolio (LIB 350)	1
		<i>Elective</i>	3

This is an example of a four year plan only. Each student's schedule may differ based on their progress, course availability, and goals. Every student will have an consistent, individual meeting throughout their academic career with an advisor to customize their personal four year plan.