

A Major Academic Plan (MAP) illustrates one way to complete a degree in a recommended number of semesters. Below is an example of an efficient and recommended plan, but actual plans will vary by individual student needs. Program requirements are based on Catalog Year. See page two for a detailed summary of Major, General Education, Elective, and university requirements.

Course Subject and Title	Cr.	Min. Grade	*GE, UU or UM	**Sem. Offered	Prerequisite	Co Requisite
Semester One						
GE Objective 1: ENGL 1101 English Composition	3	C-	GE	F,S, Su	Appropriate placement score	
GE Objective 3: MATH 1170 Calculus I	4	C-	GE	F,S, Su	MATH 1144 or 1147 or appropriate test score	
GE Objective 5: CHEM 1111 & 1111L Gen Chem I & Lab	5	C-	GE	F,S,Su	MATH 1143 or 1147 or appropriate test score	
GE Objective 5 : BIOL 1101 & 1101L General Biology I & Lab	4	C-	GE	F,S, Su	MATH 1108 or appropriate test score	
Total	16					
Semester Two						
GE Objective 1: ENGL 1102 Critical Reading and Writing	3	C-	GE	F,S, Su	ENGL 1101 or equivalent	
MATH 1175: Calculus II	4	C-		F,S, Su	MATH 1175 C-	
CHEM 1112 & 1112L General Chemistry II & Lab	4	C-		F,S, Su	CHEM 1111 & 1111L and MATH 1143 or	
BIOL 1102 & BIOL 1102 L General Biology II & Lab	4	C-		F,S	BIOL 1101 & Lab	
Total	15					
Semester Three						
BIOL 2235 & 2235L General Microbiology & Lab*	4				BIOL 1101, BIOL 1102, CHEM 1112	
PHYS 1111 & 1113 General Physics I & Lab*	4	C-		F,S	MATH 1143 or 1147 or appropriate test score	MATH 1175
CHEM 3301 & CHEM 3303 Organic Chemistry I & Lab	4	C-	UM	F, F,S	CHEM 1112 & 1112L or permission of instructor	
GE Objective 2: COMM 1101 Principles of Speech	3	C-	GE	F, S, Su		
Total	15					
Semester Four						
BIOL 3358 Genetics	3	C-	UM	F,S	BIOL 2235 or BIOL 2206	
PHYS 1112 & PHYS 1114 General Physics II & Lab*	4	C-		F	PHYS 1111 & PHYS 1113	
CHEM 3302 & CHEM 3304 Organic Chemistry II & Lab	4	C-	UM	S	CHEM 3301 & CHEM 3303	
CHEM 2232 & CHEM 2234 Qualitative Analysis & Lab	4	C-		S	CHEM 1112 & Lab, MATH 1160 or 1170	CHEM 2234 or permission
Total	15					
Semester Five						
BIOL/CHEM 4445 Biochemistry I	3		UM	F	BIOL 1101 & CHEM 3302	
CHEM 3341 Topics in Physical Chemistry*	3	C-	UM	F	CHEM 1112 & 1112 L, PHYS 1112 or 2211, MATH 1160 or 1175	
BIOL electives from approved list (Upper Division)	4	C-	UM	F,S	See catalog	
CHEM elective from approved list	4	C-		F,S	See catalog	
GE Objective 6:	3		GE	F,S,Su		
Total	17					
Semester Six						
BIOL/CHEM 4447 Biochemistry II	3	C-	UM		BIOL /CHEM 4445	
CHEM 3342 Topics in Physical Chemistry*	3	C-	UM	S	CHEM 3341 Topics in Physical Chemistry	
BIOL 4437/CHEM 4438 Experimental Biochemistry	1	C-	UM	S	BIOL 4432 or CHEM 4445	
BIOL electives from approved list (Upper Division)	4	C-	UM	F,S	See catalog	
GE Objective 4:	3		GE	F,S		
Total	14					
Semester Seven						
BIOL 4444 & BIOL 4444L Cell & Molecular Biology & Lab	4	C-	UM	F	BIOL 3358 & CHEM 3302	
CHEM electives from approved list	4	C-		F,S	See catalog	
GE Objective 6	3		GE	F,S, Su		
GE Objective 7 or 8:	3		GE	F,S, Su		
Total	14					
Semester Eight						
BIOL/CHEM 4498 Seminar in Biochemistry	1	C-	UM	F,S		Senior standing or permission of instructor
BIOL or CHEM elective from approved list	4	C-		F,S	See catalog	
Free electives	3					
GE Objective 9:	3		GE			
GE Objective 4:	3		GE	F,S, Su		
Total	14			F, S, Su		

*GE=General Education Objective, UU=Upper Division University, UM= Upper Division Major

**See Course Schedule section of Course Policies page in the e-catalog (or input F, S, Su, etc.)

2017-2018 Major Requirements	CR	2017-2018 GENERAL EDUCATION OBJECTIVES Satisfy Objectives 1,2,3,4,5,6 (7 or 8) and 9	36 cr. min
MAJOR REQUIREMENTS	77	1. Written English (6 cr. min) ENGL 1101	3
CORE Requirements	45	ENGL 1102	3
BIOL 1101 & 1101L General Biology I & Lab (4 cr counted in Obj. 5)		2. Spoken English (3 cr. min) COMM 1101	3
BIOL 1102 & BIOL 1102 L General Biology II & Lab	4	3. Mathematics (3 cr. min) MATH 1170	4
BIOL 2235 & 2235L Gen Micro/lab *	4	4. Humanities, Fine Arts, Foreign Lang. (2 courses; 2 categories; 6 cr. min)	
BIOL 3358 Genetics	3		
BIOL/CHEM 4445 Biochemistry I	3	5. Natural Sciences (2 lectures-different course prefixes, 1 lab; 7 cr. min)	
BIOL/CHEM 4447 Biochemistry II	3	BIOL 1101 & 1101L General Biology I & Lab	4
BIOL 4437/CHEM 4438 Experimental Biochemistry	1	CHEM 1111 & 1111L General Chemistry I & Lab	5
BIOL 4444 & BIOL 4444L Cell & Molecular Biology & Lab	4		
BIOL/CHEM 4498 Seminar in Biochemistry	1		
CHEM 1111 & 1111L General Chemistry I & Lab (5 cr counted in Obj.5)			
CHEM 1112 & 1112L General Chemistry II & Lab	4		
CHEM 2232 & CHEM 2234 Qualitative Analysis & Lab	4	One Course from EITHER Objective 7 OR 8 (1course; 3 cr. min)	
CHEM 3301 & CHEM 3303 Organic Chemistry I & Lab	4	7. Critical Thinking	
CHEM 3302 & CHEM 3304 Organic Chemistry II & Lab	4	8. Information Literacy	
CHEM 3341 Topics in Physical Chemistry*	3	9. Cultural Diversity (1 course; 3 cr. min)	
CHEM 3342 Topics in Physical Chemistry*	3		
BIOL/CHEM Approved Electives	20	General Education Elective to reach 36 cr. min. (if necessary)	
Approved BIOL Electives (see list of Upper Division courses in catalog)	8		
Approved CHEM Electives (see list in catalog)	8		
Approved BIOL OR CHEM Electives (see list in catalog)	4		
MATH requirements	12		
MATH 1170 Calculus (4 cr counted in Objective 3)			
MATH 1175: Calculus II	4	MAP Credit Summary	CR
PHYS 1111 & 1113 General Physics I & Lab*	4	Major	77
PHYS 1112 & PHYS 1114 General Physics II & Lab*	4	General Education	40
		Free Electives to reach 120 credits	3
		TOTAL	120
		Minimum 36 cr. General Education Objectives (15 cr. AAS)	yes
		Minimum 16 cr. Upper Division in Major (0 cr. Associate)	yes
		Minimum 36 cr. Upper Division Overall (0 cr. Associate)	yes
		Minimum of 120 cr. Total (60 cr. Associate)	yes
Advising Notes		MAP Completion Status (for internal use only)	
All major courses must be passed with a C- or better.			<i>Date</i>
*Alternative choices:		<i>Department:</i>	4/27/2017 Rene Rodriguez
-BIOL 2206 and 2207 can be taken instead of BIOL 2235 and 2235L		<i>CAA or COT:</i>	5.16.2017 jh
-CHEM 3351 and 3352 can be taken instead of CHEM 3341 and 3342		<i>Registrar:</i>	
-PHYS 2211,2212, 2213, and 2214 may be taken instead of			
PHYS 1111, 1112, 1113, 1114			

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