



Department	Chemistry & Biochemistry
Program	BS Biochemistry (with pre-calculus)
Bulletin	2013-2014
Revised	July 2013

 Major
 Cognate
 Gen Ed
 Elective, Minor



Freshperson (First) Year

Fall Semester										Spring Semester											
Course	Title	Cred	M	C	GE	E	UD	L		Course	Title	Cred	M	C	GE	E	UD	L			
1	1 CHEM131	General Chemistry I	4	•					1	1	1 CHEM132	General Chemistry II	4	•					1		
2	1 BIOL165	Foundations of Biology	5		•				1	1	BIOL166	Foundations of Biology	5		•				1		
4	LC ENGL115	English Comp I	3			•				R	RELT100	God & Human Life	3			•					
3	Hi HIST117	Civilizations & Ideas I	3			•				1	MATH168	Pre-Calculus	4				•				
5	CHEM210	Chemical Topics	0	•						CHEM210	Chemical Topics	0	•								
6	PE HLED120	Fit for Life	1			•															
7	Biology, Calculus, and Physics sequences can be shuffled between 1st, 2nd, & 3rd year.																				
8	Students may substitute GE courses from 2nd, 3rd, or 4th year in the first year if desired. Calculus readiness courses lead to heavier loads later.																				
2	STEM	SEMESTER TOTAL		10	4.0	5	7	0	0	2	2	STEM	SEMESTER TOTAL		10	4.0	5	3	4	0	2
2	labs										2	labs									

Sophomore (Second) Year

Fall Semester										Spring Semester											
Course	Title	Cred	M	C	GE	E	UD	L		Course	Title	Cred	M	C	GE	E	UD	L			
1	1 CHEM231	Organic Chemistry I	3	•						1	1 CHEM232	Organic Chemistry II	3	•							
2	CHEM241	Organic Chem Lab I	1	•				1		CHEM242	Organic Chem Lab II	1	•					1			
4	1 PHYS141	General Physics I	4		•			1		1	PHYS142	General Physics II	4		•			1			
3	LC ENGL215	English Comp II	3			•				R	RELx2xx	Religion Course #2	3			•					
6	S BHSC100	Philosophy of Service	2			•				C	INFS120	Computer Tools	3			•					
5	SS	Social Science: Foundat'n list	3			•				PE	FTESxxx	PE Activity #1	1			•					
7	CHEM210	Chemical Topics	0	•						CHEM210	Chemical Topics	0	•								
8	STEM SEMESTER TOTAL 16 4.0 4 8 0 0 2																				
2	STEM	SEMESTER TOTAL		16	4.0	4	8	0	0	2	2	STEM	SEMESTER TOTAL		15	4.0	4	7	0	0	2
2	labs										2	labs									

Junior (Third) Year

Fall Semester										Spring Semester											
Course	Title	Cred	M	C	GE	E	UD	L		Course	Title	Cred	M	C	GE	E	UD	L			
1	1 BCHM421	Biochem I	4	•				0		1	1 BCHM422	Biochem II	3	•				0			
2	CHEM311	Chem Seminar	0.5	•				0		CHEM430	Biochemistry Lab	1	•				0	1			
3	1 CHEM200	Quantitative Analysis	4	•				2		CHEM312	Chem Seminar II	0.5	•								
4	1 MATH191	Calculus I	4		•					1	MATH192	Calculus II	4		•						
5	R RELx2xx	Religion Course #3	3			•				SS	Social Science: Interdisc. list	3			•						
6										PE	FTESxxx	PE Activity #2	1			•					
7										1	Advanced Biology #1 ‡	3		•			0	1			
8	STEM SEMESTER TOTAL 15.5 8.5 4 3 0 4.5 2																				
3	STEM	SEMESTER TOTAL		15.5	8.5	4	3	0	4.5	2	3	STEM	SEMESTER TOTAL		15.5	4.5	7	4	0	4.5	2
2	labs										2	labs									

Senior (Fourth) Year

IMPORTANT: MCAT / DAT / PCAT should be taken before 4th year

Fall Semester										Spring Semester											
Course	Title	Cred	M	C	GE	E	UD	L		Course	Title	Cred	M	C	GE	E	UD	L			
4th 1	1 CHEM431	Physical Chemistry I	3	•				0		CHEM412	Chem Seminar IV	0.5	•					0			
4th 2	CHEM441	Physical Chemistry I Lab	1	•				0	1	1	CHEM400	Chemical Separations	2	•				0	1		
4th 4	CHEM411	Chem Seminar III	0.5	•				0		1	CHEM430	Instrumental Analysis	2	•				0	1		
4th 3	1	Advanced Biology #2 ‡	3		•			0	1	Hu	Arts & Humanities #1	3			•						
4th 5	R	Religion Course #4 (Ethics)	3			•		0		Hi	HIST118	Civilizations & Ideas II	3			•					
4th 6	LC COMM320	Interpersonal Comm.	3			•		0		Hu	Arts & Humanities #2	3			•						
4th 7	PE	PE Activity #3	1			•					Upper Div Elective	3			•			0			
4th 8	*Adv Chem = 415 (inorg), 495 (research) ‡ Adv Biol=Biol371,372,315,464,465;FNDT485																				
2	STEM	SEMESTER TOTAL		14.5	4.5	3	7	0	14	2	2	STEM	SEMESTER TOTAL		16.5	4.5	0	9	3	7.5	2
2	labs										2	labs									

Credit Breakdown

Course-type Legend
Cred = Course Credit
M = Major
C = Cognate
GE = General Ed
E = Elective
UD = Upper Div

Credit type	Chart	AU Requirement
Total Credits	125	124 ✓
Major	38.0	38 ✓
Cognate	32	32 ✓
Gen Ed	48	48 ✓
Electives, Minor, etc	7	0 ✓
UD	30	30 ✓

Chart	AU Requirement
125	124 ✓
38.0	38 ✓
32	32 ✓
48	48 ✓
7	0 ✓
30	30 ✓



Legend: ■ Req't NOT Met; ✓ Req't Met

Gen Ed Credits Breakdown

Code	Chart	AU Req't	
Religion	R 12	12	✓
Language & Communication	LC 9	9	✓
History	Hi 6	6	✓
Humanities	Hu 6	6	✓
Social Sciences	SS 6	6	✓
Service	S 2	2	✓
Computer	C 3	3	✓
Wellness	PE 4	4	✓
TOTAL	48	48	✓