



Department	Chemistry & Biochemistry
Program	BS Biochemistry
Bulletin	2022-2023
Revised	February 2022

Major	← toc
Cognate	
Gen Ed	
Elective, Minor	

3-Biochem 1

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	1 BIOL166	Foundations of Biology	5	•					1	
4	LC ENGL115	College Writing I	3		•					R	REL100	God & Human Life	3		•					
3	SS	Social Sci	3		•					LC	COMM104	Communication Skills	3		•					
5																				
6																				
7	Foundations of Biology, Calculus, & Gen Phys sequences can be exchanged between years. Students may substitute ACE/GE courses from 2nd, 3rd, or 4th year in the first year if desired.																			
8																				
2	STEM	SEMESTER TOTAL	15	4.0	5	6	0	0	2	2	STEM	SEMESTER TOTAL	15	4.0	5	6	0	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	•					
	1 CHEM241	Organic Chem Lab I	1	•					1		1 CHEM242	Organic Chem Lab II	1	•					1
4	1 PHYS141	General Physics I	4	•					1	1	1 PHYS142	General Physics II	4	•					1
3	LC ENGL215	College Writing II	3		•														
5	W HLED135	Wellness 360°	3		•														
6	Hi HIST110	Culturs, Worldvws & Gods	3		•					R	RELx2xx	Relig Course #2	3		•				
7																			
8																			
2	STEM	SEMESTER TOTAL	17	4.0	4	9	0	0	2	2	STEM	SEMESTER TOTAL	15	4.0	4	3	4	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	•				◇		1	1 BCHM422	Biochem II	3	•				◇	
2	1 CHEM210	Chemical Topics	0	•							1	BCHM430	Biochemistry Lab	1	•			◇	1
3	1 CHEM330	Quant Chem Analysis	4	•				◇	2		1	CHEM210	Chemical Topics	0	•				
4	1 MATH191	Calculus I	4	•						1	1 MATH192	Calculus II	4	•					
5	Hu	Arts & Humanities #1	3		•					R	RELx2xx	Relig Course #3	3		•				
6										1	1	Adv. Biol. #1 ‡	3	•			◇	1	
7		Research / Music Lesson	1		•							1	Research / Music Lesson	1		•			
8																			
3	STEM	SEMESTER TOTAL	16	8.0	4	3	1	8.0	2	3	STEM	SEMESTER TOTAL	15	4.0	7	3	1	4.0	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	•				◇		1	1 CHEM210	Chemical Topics	0	•					
4th 2	1 CHEM441	Physical Chemistry I Lab	1	•				◇	1	1	1 CH400/430	Chem Sep / Instrum Analy.	2	•				◇	1
4th 3	1 CHEM418	Chem & Biochem Seminar	2	•				◇											
4th 3	1 PPTH417/427	Human Anatomy	3		•				1										
4th 5	R	Relig Course #4 (Ethics)	3		•			◇		1	1	Adv. Biol. #2 ‡	3	•			◇	1	
4th 6		Upper Div Elective	3		•			◇		Hu	Arts & Humanities	3		•					
4th 7	1 CHEM210	Chemical Topics	0	•								3		•			◇		
4th 8	*Adv Chem = 415 (inorg), 495 (research) ‡ Adv Biol=BIOL371,372,315,415,420,447,450,464,465,485;FNDDT485																		
2	STEM	SEMESTER TOTAL	15	6.0	0	3	6	##	2	2	STEM	SEMESTER TOTAL	16	2.0	3	3	8	##	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	124	124 ✓
Major	36.0	36 ✓
Cognate	32	32 ✓
Gen Ed	36	36 ✓
Electives, Minor, etc	20	0 ✓
UD	35	30 ✓

Legend: Req't NOT Met; ✓ Req't Met



Gen Ed Credits Breakdown

Major Includes 7 ACE credits	Code	Chart	AU Req't
Religion	R	12	12 ✓
Language & Communication	LC	9	9 ✓
History	Hi	3	3 ✓
Humanities	Hu	6	6 ✓
Social Sciences	SS	3	3 ✓
Service	S	0	0 ✓
Computer	C	0	0 ✓
Wellness	W	3	3 ✓
TOTAL		36	36 ✓