



Department	Chemistry & Biochemistry
Program	BS Biochemistry (Biomed)
Bulletin	2026-2027
Revised	June 2026

Major	Green
Cognate	Yellow
Gen Ed	Pink
Elective, Minor	Grey
##	##



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 (Psych or Soci)	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	Wellbeing 360°	2		.									.					
6	Hi HIST110	Cultrs, Worldvws & Gods	3		.				R	RELx2xx	Relig Course #2	3		.					
7	1 CHEM210	Chemical Topics	0	.					2	1 CHEM210	Chemical Topics	0	.						
8																			
2	STEM	SEMESTER TOTAL	16	4.0	4	8	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	.				0	1	1 BCHM422	Biochem II	3	.				0		
2	1 CHEM210	Chemical Topics	0	.						BCHM430	Biochemistry Lab	1	.				0		
3	1 CHEM330	Quant Chem Analysis	4	.				0	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	.				0		
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	.				0	1	1 CHEM210	Chemical Topics	0	.						
4th 2	1 CHEM441	Physical Chemistry I Lab	1	.				0	1	1 CH400/430	Chem Sep / Instrum Analy.	2	.				0		
4th 4	1 CHEM418	Chem & Biochem Seminar	2	.				0						.			0		
4th 3	1 PPTH417/427	Human Anatomy	4		.			1						.			0		
4th 5	R	Relig Course #4 (Ethics)	3		.			0	1	1	Adv. Biol. #2 †	3	.				0		
4th 6		Upper Div Elective	3		.			0	Hu	1	Arts & Humanities	3		.			0		
4th 7	1 CHEM210	Chemical Topics	0	.							1	Upper Div Elective, Adv Chem*	3		.		0		
4th 8	*Adv Chem = 415 (inorg), 495 (research) † Adv Biol=Biol371,372,415,422,450,460,464,465,485;FNDD485																		
2	STEM	SEMESTER TOTAL	16	6.0	0	3	7	##	2	2	STEM	SEMESTER TOTAL	16	2.0	3	3	8	##	2
2	labs									2	labs								

Credit Breakdown				Gen Ed Credits Breakdown			
Course-type Legend	Credit type	Chart	AU Requirement	Major Includes 7 ACE credits	Code	Chart	AU Req't
Cred = Course Credit	Total Credits	124	120 ✓	Religion	R	12	12 ✓
M = Major	Major	36	36 ✓	Language & Communication	LC	9	9 ✓
C = Cognate	Cognate	32	32 ✓	History	Hi	3	3 ✓
GE = General Ed	Gen Ed	35	36 ✗	Humanities	Hu	6	6 ✓
E = Elective	Electives, Minor, etc	21	0 ✓	Social Sciences	SS	3	3 ✓
UD = Upper Div	UD	35	30 ✓	Service	S	0	0 ✓
				Computer	C	0	0 ✓
				Wellness	W	2	3 ✗
				TOTAL		35	36 ✗

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