



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

 Major
 Cognate
 Gen Ed
 Elective, Minor



5-Chem ACS-OddFallStart

Freshperson (First) Year									
Fall Semester					Spring Semester				
Course	Title	Cred	M	C	GE	E	UD	L	
1	1 CHEM131	General Chemistry I	4	•					1
2	1 MATH191	Calculus I	4	•					
4	LC ENGL115	College Writing I	3		•				
3	PE HLED135	Wellbeing 360°	3		•				
5	Hu MUPFxxx	Music Lessons	1		•				
6									
7									
8									
2	STEM	SEMESTER TOTAL	15	4.0	4	7	0	0	1
1	labs								

Sophomore (Second) Year									
Fall Semester					Spring of Odd Year				
Course	Title	Cred	M	C	GE	E	UD	L	
1	1 CHEM231	Organic Chemistry I	3	•					
2	1 CHEM241	Organic Chem Lab I	1	•				1	
4	1 PHYS241	Phys for Sci I	4	•					
3	1 PHYS271	Phys for Sci Lab I	1	•				1	
5	1 CHEM330	Quant Chem Analysis	4	•				2	
6	R RELx2xx	Relig Course #2	3		•				
7									
8									
3	STEM	SEMESTER TOTAL	16	8.0	5	3	0	0	4
4	labs								

Junior (Third) Year									
Fall Semester					Spring of EVEN Year				
Course	Title	Cred	M	C	GE	E	UD	L	
1	1 CHEM431	Physical Chemistry I	3	•				◇	
2	1 CHEM441	Physical Chemistry I Lab	1	•				◇	1
4	1 CHEM210	Chemical Topics	0	•					
3	LC ENGL215	College Writing II	3		•				
5	Hi HIST110	Cultrs, Worldvws & Gods	3		•				
6	R RELx2xx	Relig Course #3	3		•				
7	1	Elective, Minor	3		•				
8		Phys Chem I must be JUNIOR Fall							
1	STEM	SEMESTER TOTAL	16	4.0	0	9	3	4.0	1
1	labs								

Senior (Fourth) Year									
Fall Semester					Spring of Odd Year				
Course	Title	Cred	M	C	GE	E	UD	L	
4th 1	1 BCHM421	Biochem I	4	•				◇	
4th 2	1 CHEM210	Chemical Topics	0	•					
4th 4	1 CHEM474	Adv. Org. Chem.*	2	•				◇	1
4th 3	1 CHEM418	Chem & Biochem Seminar	2	•				◇	
4th 5	R	Relig Course #4	3		•				
4th 6	1 CHEM495	Chem Research	1		•			◇	1
4th 7	1	Elective, Minor	3		•				
4		*take CHEM474 -OR- CHEM 470 Mod. Syn. Tech. -OR- CHEM475 Adv. Phys. Chem (470,475 in Spring Semester)							
2	STEM	SEMESTER TOTAL	15	8.0	0	3	4	9.0	1
1	labs								

Credit Breakdown			Gen Ed Credits Breakdown			
Course-type Legend	Credit type	Chart	AU Requirement	Code	Chart	AU Req't
Cred = Course Credit	Total Credits	124	124 ✓	Major Includes 7 ACE credits	R	12
M = Major	Major	44	44 ✓	Religion	LC	9
C = Cognate	Cognate	21	21 ✓	Language & Communication	Hi	3
GE = General Ed	Gen End	36	36 ✓	History	Hu	6
E = Elective	Electives, Minor, etc	23	0	Humanities	SS	3
UD = Upper Div	UD	32	30	Social Sciences	S	0
				Service	PE	3
				Wellness		3
				TOTAL		36

Legend: Reqt NOT Met; ✓ Reqt Met