

Academic Program Sequence Map

Program Degree Type and Name: **B.S Biology, Biomedical Sciences Track** Catalog Year: **2026-2027**Program Level: **Undergraduate** Academic Term Type: **Semester***** Denote core course with an asterisk and (cc) next to the course number**

Year and Term: Year 1 Fall Term	Credits Per Classification					Year and Term: Year 1 Spring Term	Credits Per Classification				
Course Number & Title	CR	GE	Maj	OE	Milestone/Advice	Course Number & Title	CR	GE	Maj	OE	Milestone/Advice
Math 116: College Algebra or higher math (depending on placement) - QR Gen Ed	3	x				CHEM 160: General Chemistry I (Liberal Arts)	3		x		SM, GC
ENGL 111: Written Engl and Lit Studies - (Comp I Gen Ed)	3	x				CHEM 160A: General Chemistry I Lab (Liberal Arts)	1		x		SM, GC, EL
BIOL 105: Pathways in Biology (Gen Ed - Scientific Reasoning) or ENGL 110 (if needed), if ENG 110, move BIOL 105 to 2nd sem and Math 201 to 3rd semester	3	x			CA	BIOL 161: General Bio II (Liberal Arts)	3		x		SM, GC
BIOL 160: General Bio I (Liberal Arts)	3		x		SM, GC	BIOL 161A: General Bio II Lab (Liberal Arts)	1		x		SM, GC, EL
BIOL 160A: General Bio I Lab (Liberal Arts)	1		x		SM, GC, EL	Math 201 PreCalculus (or QR gen ed if completed a	3		x		
First Year Seminar (Gen Ed)	3	x				ENGL 112: Written Engl and Lit Studies II (Comp II Gen Ed)	3	x			
Term Credit Total:	16	12	4			Term Credit Total:	14	3	11		
Year and Term: Year 2 Fall Term	Credits Per Classification					Year and Term: Year 2 Spring Term	Credits Per Classification				
Course Number & Title	CR	GE	Maj	OE	Milestone/Advice	Course Number & Title	CR	GE	Maj	OE	Milestone/Advice
CHEM 161: General Chem II (Liberal Arts)	3		x		SM, GC	BIOL 360: Genetics	4		x		EL
CHEM 161A: General Chem II Lab (Liberal Arts)	1		x		SM, GC, EL	CHEM 260: Organic Chem I	3		x		
BIOL 275: Cell Biology (Liberal Arts)	4		x		EL	CHEM 260A: Organic Chem I Lab	1		x		EL
Gen Ed Self and Society - PSYN 101 if student will take	3	x				Mercy Seminar II (Gen Ed)	3	x			EL (WBE if employer collaboration?)
MATH 260: Calculus I (Liberal Arts)	4		x			PSYN 370: Beh. Stats or Math 261 Calc II or Math 122	3		x		
Term Credit Total:	15	3	12			Term Credit Total:	14	3	11		
Year and Term: Year 3 Fall Term	Credits Per Classification					Year and Term: Year 3 Spring Term	Credits Per Classification				
Course Number & Title	CR	GE	Maj	SM	Milestone/Advice	Course Number & Title	CR	GE	Maj	OE	Milestone/Advice
Mercy Seminar III (Gen Ed)	3	x				Major Elective 1	2		x		
CHEM 261: Organic Chem II (Liberal Arts)	3		x			Gen Ed (Ethical Reasoning)	3	x			
CHEM 261: Organic Chem II Lab (Liberal Arts)	1		x		EL	Gen Ed (Humanities)	3	x			
BIOL 370 Research in Biology I	3		x			PHYS 181: PHYS for Biol. Sci (Liberal Arts)	4		x		EL
PHYS 180: PHYS for Biol. Sci (Liberal Arts)	4		x		EL	CHEM 354 Biochemistry (Liberal Arts)	3		x		
						CHEM 354A Biochemistry Lab (Liberal Arts)	1		x		EL
Term credit total:	14	3	11			Term Credit Total:	16	6	10	0	
Year and Term: Year 4 Fall Term	Credits Per Classification					Year and Term: Year 4 Spring Term	Credits Per Classification				
WBE (0 credits) - if not completed earlier	0				WBE	Course Number & Title	CR	GE	Maj	OE	Milestone/Advice
Year and Term: Year 4 Fall Term	Credits Per Classification					Gen Ed (Language II) or elective if not needed	3	x			
Course Number & Title	CR	GE	Maj	OE	Milestone/Advice	BIOL 460: Research Capstone	3		x		EL (WBE if employer collaboration?)
BIOL 355: Molecular Biology of the Cell *(cc) (Liberal Ar	4		x		EL	BIOL 309 Human Physiology	3		x		
Major Elective 2 (Liberal Arts)	3		x			Open Elective	3			x	
Gen Ed (Creative Expression)	3	x				Elective (gen ed or open elective, depending on earlier ENGL 110 needs)	3	x			
Gen Ed (Language I) or elective if not needed	3	x				Term Credit Total:	15	6	6	3	
Open Elective	3			x							
Term Credit Total:	16	6	7	3							
Program Totals		Credits: 120		GE: 42 (if ENGL 110 and Languages needed)		Major & Major Elective: 72		Open Elective: 6			

Legend: CR: Credits GE: General Education Maj: Major / Major Elective OE: Open Elective SM: Success Marker Co/Prerequisite(s): List of co/ prerequisites for noted course GC: Gateway CourseCA: Career Activity