

## Academic Program Sequence Map

**Program Degree Type and Name:** B.S Biology, Biomedical Sciences Track

**Catalog Year:** 2023-2024

**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							Year and Term: Year 1 Spring Term						
Credits Per Classification				Co / Prerequisite(s)			Credits Per Classification				Co / Prerequisite(s)		
Course Number & Title	CR	GE	Maj	OE	Milestone/Advice	Course Number & Title	CR	GE	Maj	OE	Milestone/Advice		
Math 116: College Algebra (if needed)	3	x				CHEM 160: General Chemistry I	3	X			Pre: MATH 116; Co: CHEM 160A/160R	SM, GC	
ENGL 111: Written Engl and Lit Studies	3	x				CHEM 160A: General Chemistry I Lab	1	x			Pre: MATH 116; Co: CHEM 160	SM, GC, EL	
COMM 110: Oral communication	3	x				BIOL 160: General Bio I	3	x			Pre: MATH 116; Co: BIOL 160A/160R	SM, GC	
BIOL 105: Pathways	3	x			CA	BIOL 160A: General Bio I Lab	1		x		Pre: MATH 116; Co: BIOL 160	SM, GC, EL	
CINQ 101: Critical Inquiry	3	x				MATH 201: Precalculus	3	x					
						ENGL 112: Written Engl and Lit Studies II	3	x					
<b>Term Credit Total:</b>	15	15				<b>Term Credit Total:</b>	14	13	1				
Year and Term: Year 2 Fall Term							Year and Term: Year 2 Spring Term						
Credits Per Classification				Co / Prerequisite(s)			Credits Per Classification				Co / Prerequisite(s)		
Course Number & Title	CR	GE	Maj	OE	Milestone/Advice	Course Number & Title	CR	GE	Maj	OE	Milestone/Advice		
CHEM 161: General Chem II	3	x			Pre: CHEM 160/160A; Co: CHEM 161A/160R	BIOL 275: Cell Biology	4		x		Pre: BIOL 160/160A; 161/161A; CHEM 160/160A; Pre or Co: CHEM 161, 161A (can be taken prior to or same semester as if necessary)	EL	
CHEM 161A: General Chem II Lab	1	x			Pre: CHEM 160/160A; Co: CHEM 161	CHEM 260: Organic Chem I	3		x		Pre: CHEM 160/160A; 161/161A; Co: CHEM 260A/260R		
BIOL 161: General Bio II	3	x			Pre: BIOL 160/160A; Co: BIOL 161A	CHEM 260A: Organic Chem I Lab	1		x		Pre: CHEM 160/160A; 161/161A; Co: CHEM 260	EL	
BIOL 161A: General Bio II Lab	1	x			Pre: BIOL 160/160A; Co: BIOL 161	PSYN 370: Beh. Stats or Math 261 Calc II	3		x		Pre: PSYN 101 for PSYN 370		
PSYN 101: Intro to Psychology	3	x				BIOL 370 Research in Biology I	3		X		BIOL 160/160A and BIOL 161/161A	EL	
MATH 260: Calculus I	4		x		Pre: MATH 201								
<b>Term Credit Total:</b>	15	11	4			<b>Term Credit Total:</b>	14	0	14				
Year and Term: Year 3 Fall Term							Year and Term: Year 3 Spring Term						
Credits Per Classification				Co / Prerequisite(s)			Credits Per Classification				Co / Prerequisite(s)		
Course Number & Title	CR	GE	Maj	SM	Milestone/Advice	Course Number & Title	CR	GE	Maj	OE	Milestone/Advice		
BIOL 360: Genetics	4		X		Pre: BIOL 161/161A; CHEM 161/161A; BIOL 275 or BIOL 265/265A	CHEM 354: Biochemistry	4		X		Pre: BIOL 160/160A; 161/161A; CHEM 160/160A; 161/161A; 260/260A; 261/261A.	EL	
CHEM 261: Organic Chem II	3		X		Pre: CHEM 260/260A; Co: CHEM 261A/261R	Gen Ed	3	x					
CHEM 261: Organic Chem II Lab	1		X		Pre: CHEM 260/260A; Co: CHEM 261	CISC 120: Introduction to Computers	3	x			Pre: ENGL 112		
JRSM 301: Junior Seminar	3	X				PHYS 181: PHYS for Biol. Sci	4		x		Pre: MATH 260	EL	
PHYS 180: PHYS for Biol. Sci	4		x		Pre or Co: MATH 260	Major Elective 1	2		x				
<b>Term credit total:</b>	15	3	12			<b>Term Credit Total:</b>	16	6	10	0			
Year and Term: Year 4 Fall Term							Year and Term: Year 4 Spring Term						
Credits Per Classification				Co / Prerequisite(s)			Credits Per Classification				Co / Prerequisite(s)		
Course Number & Title	CR	GE	Maj	OE	Milestone/Advice	Course Number & Title	CR	GE	Maj	OE	Milestone/Advice		
BIOL 355: Molecular Biology of the Cell *(cc)	4		X		Pre: BIOL 360; CHEM 160/160A; CHEM 161/161A	Gen Ed	6	X					
Major Elective 2	3		X			BIOL 460 or BIOL 461: Research or Literature Cap	3		X		15 upper level BIO &/or CHEM credits	EL	
Gen Ed	6	X				BIOL 309 Human Physiology	3		X		Pre: BIOL 160/A, BIOL 161/A; CHEM 160/160A; CHEM 161/161A		
Open Elective	3			X		Open Elective	3			X			
<b>Term Credit Total:</b>	16	6	7	3		<b>Term Credit Total:</b>	15	6	6	3			
Program Totals							Program Totals						
Credits: 120		General Education: 60			Major & Major Elective: 54		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 Course CA: Career Activity EL: Experiential Learning Course