

Program Degree Type and Name: Biology Education Track BS + MS in Education - BIEM

Catalog Year: 2025-2026

Program Level: Undergraduate Academic Term Type: Semester

Year and Term: Year 1 Fall Term	Credits Per Classification				
Course Number & Title	CR	GE	Maj	OE	Milestone/Advice
Math 116: College Algebra or higher math (depending on p	3	x			
ENGL 111: Written Engl and Lit Studies	3	x			
BIOL 105: Pathways in Biology	3	x			CA
BIOL 160: General Bio I	3	x			SM, GC
BIOL 160A: General Bio I Lab	1		x		SM, GC, EL
CINQ 101: Critical Inquiry	3	x			
Term Credit Total:	16	15	1		

Year and Term: Year 2 Fall Term	Credits Per Classification				
Course Number & Title	CR	GE	Maj	OE	Milestone/Advice
CHEM 161: General Chem II	3	X			SM, GC
CHEM 161A: General Chem II Lab	1	X			SM, GC, EL
BIOL 275: Cell Biology	4		x		EL
CISC 120: Intro to Computers	3	X			
COMM 110: Oral Communication	3	X			

Term Credit Total:	14	10	4		
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Year and Term: Year 3 Fall Term	Credits Per Classification				
Course Number & Title	CR	GE	Maj	OE	Milestone/Advice
BIOL 244: Ecology	4		X		EL
JRSM 301: Junior Seminar	3	X			
Gen Ed	3	X			
PHYS 160: Physics for Life Sci	4		X		EL
Open Elective (eg medical terminology)	2			X	
Term credit total:	16	6	8	2	

Year and Term: Year 3 Summer Term	Credits Per Classification				
WBE (0 credits) - if not completed earlier	0				WBE

Year and Term: Year 4 Fall Term	Credits Per Classification				
Course Number & Title	CR	GE	Maj	OE	Milestone/Advice
Major Elective	3		X		EL
BIOL 355: Molecular Biology (cc)*	4		X		EL
EDUC 502: Foundations in Education/Disabilities	3		X		
EDUC 505: Teaching Engl as 2nd language	3		X		
Gen Ed	3	X			
Term Credit Total:	16	3	13		

Program Totals	Credits: 120	General Ed: 60
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Year and Term: Year 1 Spring Term	Credits Per Classification				
Course Number & Title	CR	GE	Maj	OE	Milestone/Advice
CHEM 160: General Chemistry I	3	X			SM, GC
CHEM 160A: General Chemistry I Lab	1	X			SM, GC, EL
BIOL 161: General Bio II	3	x			SM, GC
BIOL 161A: General Bio II Lab	1	x			SM, GC, EL
Math 201 PreCalculus (or gen ed if completed as in	3	X			
ENGL 112 Written English II	3	X			
Term Credit Total:	14	14			

Year and Term: Year 2 Spring Term	Credits Per Classification				
Course Number & Title	CR	GE	Maj	OE	Milestone/Advice
BIOL 360: Genetics	4		X		EL
BIOL 370: Research in Biology	3		x		EL (WBE if employer collaboration?)
BIOL 223: Intro to Sci Teaching or EDUC 220: Insr th	3		X		EL, CA
Gen Ed	3	X			
Gen Ed	3	X			

Term Credit Total:	16	6	10		
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Year and Term: Year 3 Spring Term	Credits Per Classification				
Course Number & Title	CR	GE	Maj	OE	Milestone/Advice
BIOL 226: El. of Biochem or BIOL 227 Evolution or BIOL 2	3		X		EL
Gen Ed	3	X			
EDUC 500: Educational Perspectives	3		X		
CHEM 260: Organic Chem I	3		X		
CHEM 260A: Organic Chem I Lab	1		X		EL
Term Credit Total:	13	3	10		

Year and Term: Year 4 Spring Term	Credits Per Classification				
Course Number & Title	CR	GE	Maj	OE	Milestone/Advice
BIOL 455: Capstone in Bio Ed or BIOL 460: Research	3		X		EL (WBE if employer collaboration?)
EDUC 507: Approaches to Literacy	3		x		
EDUC 517: Educational Psychology and Adol Devel	3		x		
Open Elective	3			X	
Gen Ed	3	x			
Term Credit Total:	15	3	9	3	

Major/Major Electives: 55	Open Elective: 5
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