

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

Catalog Year: 2024-2025

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					
Course Number & Title	CR	GE	Maj	OE	Co / Prerequisite(s)	Milestone/Advice	
MATH 116	3	X					
ENGL 111: Written ENGL and Lit Studies	3	X					
ENGL 110 or Gen Ed	3	X			Co: ENGL 111		
CINQ 101: Critical Inquiry	3	X					
BIOL 105 Pathways in Biology	3	X				CA	
Term Credit Total:	15	15					

Year and Term: Year 2 Fall Term		Credits Per Classification					
Course Number & Title	CR	GE	Maj	OE	Co / Prerequisite(s)	Milestone/Advice	
CHEM 161: General Chem II	3	X			Pre: CHEM 160,160A; Co: CHEM 161A, CHEM 161R	SM, GC	
CHEM 161A: General Chem II Lab	1	X			Pre: CHEM 160,160A; Co: CHEM 161, CHEM 161R	SM, GC,EL	
BIOL 161: General Bio II	3	X			Pre: BIOL 160,160A; Co: BIOL161A	SM, GC	
BIOL 161A: General Bio II Lab	1	X			Pre: BIOL 160,160A; Co: BIOL161	SM, GC,EL	
Gen Ed	3	X					
COMM 110: Oral Communication	3	X					
Term Credit Total:	14	14					

Year and Term: Year 3 Fall Term		Credits Per Classification					
Course Number & Title	CR	GE	Maj	OE	Co / Prerequisite(s)	Milestone/Advice	
BIOL 244: Ecology	4		X		Pre: BIOL 160/160A, BIOL 161/161A	EL	
JRSM 301: Junior Seminar	3	X					
Gen Ed	3	x					
PHYS 160: Physics for Life Sci	4		X		Pre: Math 201	EL	
Open Elective (eg. Med Termnology)	2			X			
Term credit total:	16	6	8	2			

Year and Term: Year 4 Fall Term		Credits Per Classification					
Course Number & Title	CR	GE	Maj	OE	Co / Prerequisite(s)	Milestone/Advice	
Major Elect 1 (BIOL 366 or BIOL 370)	3		X				
BIOL 355: Molecular Biology	4		X		BIOL 360, CHEM 161A, BIOL 161/A	EL	
EDUC 502: Foundations in Education for Students with Disabilities	3			X			
EDUC 505: Teaching Engl as a 2nd Language	3			X			
Gen Ed	3	X					
Term Credit Total:	16	3	7	6		7	

Year and Term: Year 1 Spring Term		Credits Per Classification					
Course Number & Title	CR	GE	Maj	OE	Co / Prerequisite(s)	Milestone/Advice	
CHEM 160: General Chemistry I	3	X			Pre: MATH 116; Co: CHEM 160A, CHEM 160R	SM, GC	
CHEM 160A: General Chemistry I Lab	1	X			Pre: MATH 116; Co: CHEM 160, CHEM 160R	SM, GC,EL	
CHEM 160R: General Chem I Recitation	0	X			Co: CHEM 160, CHEM 160A		
BIOL 160: General Bio I	3	X			Pre: Math 116; Co: BIOL 160A, BIOL 160R	SM, GC	
BIOL 160A: General Bio I Lab	1		X		Pre: Math 116; Co: BIOL 160, BIOL 160R	SM, GC,EL	
MATH 201	3	X					
ENGL 112 Written English II	3	X					
Term Credit Total:	14	13	1				

Year and Term: Year 2 Spring Term		Credits Per Classification					
Course Number & Title	CR	GE	Maj	OE	Co / Prerequisite(s)	Milestone/Advice	
BIOL 275: Cell Biology	4		X		Pre: ENGL 111, BIOL 161/161A, CHEM 161/161A	EL	
BIOL 226: Elements of Biochemistry	3		X		Pre BIOL 161,/161A, CHEM 161/161A		
BIOL 223: Intro to Sci Teaching	3		X		Pre: BIOL 105; BIOL 161/161A	CA, EL	
Gen Ed	6	X					
Term Credit Total:	16	6	10				

Year and Term: Year 3 Spring Term		Credits Per Classification					
Course Number & Title	CR	GE	Maj	OE	Co / Prerequisite(s)	Milestone/Advice	
BIOL 360: Genetics	4		X		Pre: BIOL 275 or BIOL 265/A, BIOL 161/A, CHEM 161/A	EL	
Gen Ed	3	x					
EDUC 500: Educational Perspectives from Diverse Perspectives	3			X			
CHEM 260: Organic Chem I	3		x		Pre: CHEM 160, CHEM 160A, CHEM 161, CHEM 161A; Co: CHEM 260A		
CHEM 260A: Organic Chem I Lab	1		x		Pre: CHEM 160, CHEM 160A, CHEM 161, CHEM 161A; Co: CHEM 260	EL	
Term Credit Total:	14	3	8	3			

Year and Term: Year 4 Spring Term		Credits Per Classification					
Course Number & Title	CR	GE	Maj	OE	Co / Prerequisite(s)	Milestone/Advice	
BIOL 455: Capstone in Bio Ed	3		X		Pre: BIOL 223, BIOL 161/A	EL	
EDUC 507: Approaches to Literacy Inst.in Early Childhood through Adolescence	3			X			
EDUC 517: Educational Psychology and Adolescent Development	3			X			
Open Elective	3			X			
Major Elective 2	3		x				
Term Credit Total:	15		6	9			

Credits: 120 General Education: 60 Major credits: 40 Open Elective: 20

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 ELC: Experiential Learning Course