

Biology - Secondary Education

Pre-Calculus Track

Classes in **bold** should be taken as prescribed to remain on track.

✓	Course	Title	Cr-hr	✓	Course	Title	Cr-hr
Fall Semester - Year 1				Spring Semester - Year 1			
✓	CHEM 1211	Principles of Chemistry I	3	✓	CHEM 1212	Principles of Chemistry II	3
✓	CHEM 1211L	Principles of Chemistry lab I	1	✓	CHEM 1212L	Principles of Chemistry lab II	1
✓	MATH 1113	Pre-Calculus (or MATH 1111)	4	✓	ENGL 1102	English Composition II	3
✓	ENGL 1101	English Composition I	3	✓	BIOL 1107	Principles of Biology I	3
✓	BIOL 1108	Principles of Biology II	3	✓	BIOL 1107L	Principles of Biology lab I	1
✓	BIOL 1108L	Principles of Biology lab II	1	✓	POLS 1101	Political Science	3
✓	CORE elective	Area B	3	✓	MATH 1121	Calculus I (or MATH 1112)	4
			Total				Total
			18				18
If taking MATH 1113 in Fall Semester Year 1, MATH 1112 is not needed in Spring Semester Year 1							
Milestones				Milestones			
				Complete Area A			
				Achieve sophomore status (30+ credit hours)			
Fall Semester - Year 2				Spring Semester - Year 2			
✓	CHEM 2211	Organic Chemistry I	3	✓	BIOL 3220	Botany	4
✓	CHEM 2211L	Organic Chemistry lab I	1	✓	BIOL 3300	Ecology	4
✓	BIOL 2440	Cell and Molecular Biology	4	✓	MATH 1401	Elementary Statistics	3
✓	BIOL 3270	Zoology	4	✓	CORE elective	Area E	3
✓	HIST 211X	US History	3	✓	ENGL 211X	Literature	3
✓	GLOB 1001	Global Issues	1	✓	EDUC 2999	Intro to Teacher Education	0
✓	PE	PHED or Wellness	2				
			Total				Total
			18				17
Milestones				Milestones			
				Complete Area F			
				Achieve junior status (60+ credit hours)			
Fall Semester - Year 3				Spring Semester - Year 3			
✓	BIOL 3400** or Biology elective	Plant Anatomy and Physiology** or Biology elective	4	✓	BIOL 3450** or Biology elective	Comparative Animal Physiology** or Biology elective	4
✓	MSED 3010	Org of Schools, Curriculum, Instruction	3		BIOL 4500	Introduction to Biological Research	3
✓	SPED 3410	Exploring Diverse Populations	3	✓	BIOL 4110	Genetics	4
✓	CORE elective	Area E	3	✓	MSED 3020	Assessment and Differentiation	3
✓	CORE elective	Area C	3	✓	MSED 3090	Middle Grades and Secondary Practicum I	3
			Total				Total
			16				17
** If choosing plant specialization, replace BIOL 3450 with free elective. If choosing animal specialization, replace BIOL 3400 with Biology elective.							
Milestones				Milestones			
				Achieve senior status (90+ credit hours)			
Fall Semester - Year 4				Spring Semester - Year 4			
✓	BIOL 4950	Senior Seminar	1	✓	Biology Elective	ANY BIOL 3XXX/4XXX (except BIOL 3150)	3
✓	MSED 4030	Instructional Methods of Science	3	✓	MSED 4001	Professional Seminar	3
✓	Ed Elective	RDNG 4120 or SPED 3430	3	✓	SCED 4091	Clinical Practice in the Secondary Setting	6
✓	MSED 3091	Middle Grades and Secondary Practicum II	3	✓			
✓	MSED 4110	Positive Classroom Environment	3				
			Total				Total
			13				12
Milestones				Milestones			
Apply for graduation				Degree requirements complete: Earned BS in Biology			

TRACK TOTAL 129

Credit hours listed for electives are minimum credit hours required. Credit hours may exceed minimum requirements.