

Certificate in Science Teaching in Life Science

This certificate offers a broad spectrum of courses. From these, students can create a diverse program that includes anatomy and physiology, nutrition, ecology, plants, microbiology, insects and slime, or focus in on a specific area of interest.

Complete 12 credits selected from the below list, or other approved credits from the MS in Science Education (MSSE) Program Course Catalog (<https://www.montana.edu/msse/course-catalog/>):

BIOE 513	Terrestrial Ecology of Plains and Prairies (Summer-Online)	1	LRES 584	Twelve Principles of Soil Science for Teachers (Spring-Odd Years-Online)	3
BIOE 519	Riparian Zones/Wetlands (Summer-Online)	2	LRES 585	Water Quality in the Classroom for Teachers (Spring-Even Years-Online)	3
BIOE 520	Animal Biodiversity in GYE (Summer-On Campus)	2	M 517	Advanced Mathematical Modeling for Teaching (Summer-Odd Years-Online)	3
BIOE 522	Birds of Prey (Summer-Odd Years-On Campus)	2	MB 533	Current Topics in Microbiology for Teachers (Fall-Online)	3
BIOE 523	Wildlife Ecology (Summer-On Campus)	2	MB 536	Exploring Microbiology (Summer-Even Years-Online)	3
BIOE 526	Symbiosis for Teachers: Eat, Prey, Love (Spring-Even Years-Online)	3	MB 540	Environmental Microbiology (Summer-Odd Years-Online)	3
BIOE 527	Teaching Evolution (Fall-Online)	3	MB 541	Microbial Genetics (Spring-Even Years-Online)	3
BIOE 536	A Study of Local Ecosystems for Teachers (Fall-Online)	2	MSSE 503	Integrating Literature into the Biology/Life Science Classroom (Spring-Online)	3
BIOE 585	Exploring Biology for Teachers (Spring-Online)	3	NUTR 526	Nutrition for Fitness/Performance (Spring-Online)	3
BIOE 593	Alpine Ecology for Teachers (Summer-Odd Years-On Campus)	2	PHSX 582	Astrobiology for Teachers Online (Spring-Online)	3
BIOE 595	Ecology and Conservation of the World's Marine Ecosystems for Teachers (Fall-Online)	3	PSPP 521	Plant Science for Teachers: It Grows on You (Summer-Online)	1
BIOE 596	Land Use Issues in GYE for Teachers (Summer-On Campus)	2	PSPP 522	Insect-ology for Teachers (Summer-Online)	3
BIOE 597	Ecology of Trout Streams for Teachers (Summer-Even Years-On Campus)	2	PSPP 547	Biomimicry for Teachers (Spring-Online)	2
BIOE 599	Advanced Ecology for Teachers (Winter Session (TBD)-On Campus)	2	PSPP 548	Flowering Plants of the Northern Rocky Mountains (Summer-On Campus)	2
BIOH 586	AP Biology for Teachers (Fall-Even Years-Online)	3	PSPP 549	Botany of Spices & Medicinal Plants for Teachers (Summer-On Campus)	2
BIOH 595	Anatomy & Physiology for Tchrs (Summer-Online)	3			
ERTH 520	Fundamentals of Oceanography for Teachers (Summer-Online)	3			
ERTH 587	Invertebrate Paleontology for Teachers (Spring-Odd Years-Online)	3			
ERTH 597	Vertebrate Paleontology for Teachers (Spring-Even Years-Online)	3			
GEO 521	Dinosaur Paleontology (Summer-On Campus)	2			
GEO 522	Dino Paleontology II (Summer-Even Years-On Campus)	2			
LRES 557	Thermal Biology in YNP (Summer-On Campus)	2			
LRES 569	Ecol of Invasive Plants in GYE (Summer-On Campus)	2			
LRES 582	Streamside Science for Teachers (Summer-Online)	3			