

BIOLOGY/SECONDARY MINOR

Margaret A. O'Connell (moconnell@ewu.edu), Chair
509.359.6812

Rebecca L. Brown (rbrown@ewu.edu), Graduate Admissions
509.359.2528

department page (<https://www.ewu.edu/cstem/programs/biology>)
258 Science Building
email (mailto:
509.359.2339

This minor satisfies the endorsement for grades 5-12.

Required Biology Courses

BIOL 171	BIOLOGY I	5
BIOL 172	BIOLOGY II	5
BIOL 173	BIOLOGY III	5
BIOL 270	BIOLOGICAL INVESTIGATION	3
BIOL 310	FUNDAMENTALS OF GENETICS	5
BIOL 340	BIOLOGY AND SOCIETY	2
BIOL 423	EVOLUTION	5
BIOL 440	ECOLOGY	4
BIOL 441	ECOLOGY LAB	2

Choose one of the following

BIOL 301	MICROBIOLOGY	5
BIOL 302	BOTANY	
BIOL 303	INVERTEBRATE ZOOLOGY	
BIOL 304	VERTEBRATE ZOOLOGY	

Required Supporting Courses

BIOL 380	DATA ANALYSIS FOR BIOLOGISTS	5
or MATH 141	PRECALCULUS I	
or MATH 380	ELEMENTARY PROBABILITY AND STATISTICS	
BIOL 390	BIOLOGY TEACHING METHODS	2
SCED 390	SCIENCE TEACHING METHODS	2
Total Credits		50

Student Learning Outcomes—students will

- explain the disciplinary core ideas of biology and guide the learning of others in key principles of biology outlined in the Next Generation Science Standards;
- apply science and engineering practices in NGSS;
- incorporate instructional materials and teaching strategies to a community of diverse students;
- explain how cross-cutting ideas bridge disciplinary boundaries, uniting core ideas throughout the fields of science and engineering;
- appropriately respond to potential safety hazards in different learning environments, ,e.g., laboratory, classroom, field.