Department of Ecology

Biology Teaching, Conservation Biology and Ecology, & Fish and Wildlife Ecology and Management, & Organismal Biology // (Minors: Genetics, Water Resources)

310 Lewis Hall

Department Head: Dr. Diane Debinski

Academic Service Coordinator: Madalyn Eglian

406-994-4548



Mountains & Minds



Meet your Advisors



- Alexandra Reynolds
- Alexandra.reynolds1@montana.ed u
- 406-994-4254
- Wilson Hall 1-155





- Cassie Doll
- Cassandra.doll@montana.edu
- 406-994-5189
- Wilson Hall 1-106
- (Works with some Fish and Wildlife)

- Cole Henry
- Cole.henry@montana.edu
- 406-994-4202
- Wilson Hall 1-106
- Works with Freshman PSYX

AHVE



Info All Ecology Students Need to Know

- 120 credits to earn your Bachelor of Science (BS)
- To maintain 4-year graduation timeline, students must successfully complete 15 credits per semester (or 30 credits per academic year)
- 15 credits per semester may be required for certain scholarships
- Each semester will include a mix of CORE, Major, Elective and/or prerequisite courses
- 12 credits is the minimum for full-time standing, tuition remains the same at 12+ credits.



Overview of Ecology's Concentrations

Every student in the Ecology department earns a B.S. in Biological Sciences, but chooses one of four concentrations to focus their studies:

- Fish and Wildlife Ecology and Management: This concentration is designed for students who want to enter a career in wildlife biology. It emphasizes the conservation of biota and natural resources with a focus on preparing students for careers as fish and wildlife biologists.
- **Conservation Biology and Ecology:** This concentration also focuses on the conservation of biota and natural resources, but also includes a broader understanding of the ways natural and human-related process affect biological diversity and the discussion of societal context.
- **Organismal Biology:** This highly customizable concentration focuses on understanding plant and animal biology from the inner-most workings of the internal biological systems and those organisms' interaction with their ecosystem.
- **Biology-Teaching:** This concentration provides a solid education in biology and basic sciences with professional preparation courses required for state teacher certification in grades 5-12.





How to Choose Your Fall 2025 Schedule:

Considerations

- Courses have been chosen to keep you on track to graduation
- Transfer credits from high school were considered (AP, Dual Enrollment, IB)
- Courses from your MAJOR
- CORE courses





Ecology and Math Placement

Why is an appropriate math placement important?

 Answer: Math placement is your starting line to reach your major requirements

• MAJOR REQUIREMENTS:

- M 161Q SURVEY OF CALCULUS
- CHEMISTRY
 - FWEM: CHMY 121/122 Intro to General Chemistry w/ Lab and Recitation = 300 Math Placement
 - CBE, Org Bio and Bio T: CHMY 141/142 College Chemistry 1 w/ lab = 400 Math Placement



Fish and Wildlife Ecology and Management



Math Level 500 (15 credits)	Math Level 250/290 (16 credits)
WILD 201	WILD 201
BIOB 170IN	BIOB 170IN
CHMY 121/122	M 121Q + M 021 (5 cr)
US CORE or WRIT 101W	US CORE or WRIT 101W
Choose One: BIOE 103CS/ENSC	Choose One: BIOE 103CS/ENSC
110/NRSM 101	110/NRSM 101
Math Level 400 (15 credits)	Math Level 150 (15 credits)
WILD 201	WILD 201
BIOB 170IN	BIOB 170IN
CHMY 121/122	M 090
US CORE or WRIT 101W	US CORE or WRIT 101W
Choose One: BIOE 103CS/ENSC	Choose One: BIOE 103CS/ENSC
110/NRSM 101	110/NRSM 101
Math Level 300 (15 credits)	Math Level 100 (16 credits)
WILD 201	WILD 201
BIOB 170IN	BIOB 170IN
CHMY 121/122	M 063 + M 090 (5 cr)
US CORE or WRIT 101W	US CORE or WRIT 101W (3 cr)
Choose One: BIOE 103CS/ENSC	Choose One: BIOE 103CS/ENSC
110/NRSM 101	110/NRSM 101

STATE UNIVERSITY

Conservation Biology and Ecology

Conservation Biology & Ecology



Math Level 500 (14 credits) BIOB 170IN CHMY 141/142 CLS 101US or COMX 111US BIOE 103CS	Math Level 250/290 (15 credits) BIOB 170IN BIOE 103CS M 121Q + M 021 (5 cr) CLS 101US or COMX 111US
Math Level 400 (16 credits) BIOB 170IN BIOE 103CS CHMY 141/142 CLS 101US or COMX 111US Choose One CORE: IA, IH, IS, D, W	Math Level 150 (14 credits) BIOB 170IN BIOE 103CS M 090 CLS 101US or COMX 111US
Math Level 300 (16 credits) BIOB 170IN M121Q BIOE 103CS CLS 101US or COMX 111US Choose One CORE: IA, IH, IS, D, W	Math Level 100 (15 credits) BIOB 170IN BIOE 103CS M 063 + M 090 (5 cr.) CLS 101US or COMX 111US

Organismal Biology



SCAN ME

Math Level 500 (14 credits) BIOB 170IN CHMY 141/142 STAT216Q CLS 101US or COMX 111US Choose One CORE: IA, IH, IS, D, W	Math Level 250/290 (15 credits) BIOB 170IN M 121Q + M 021 (5 cr) CLS 101US or COMX 111US Choose One CORE: IA, IH, IS, D, W
Math Level 400 (15 credits)	Math Level 150 (14 credits)
BIOB 170IN	BIOB 170IN
CHMY 141/142	M 090
M161Q	CLS 101US or COMX 111US
CLS 101US or COMX 111US	Choose One CORE: IA, IH, IS, D, W
Math Level 300 (16 credits)	Math Level 100 (16 credits)
BIOB 170IN	BIOB 170IN
M121Q	M 063 + M 090 (5 cr)
CLS 101US or COMX 111US	CLS 101US or COMX 111US
Choose One CORE: IA, IH, IS, D, W	Choose One CORE: IA, IH, IS, D, W



Biology Teaching Option



Math Level 500 (14 credits)	Math Level 250/290 (15 credits)
BIOB 170IN	BIOB 170IN
CHMY 141/142	M 121Q + M 021 (5 cr.)
STAT216Q	US CORE or WRIT 101W
US CORE or WRIT 101W	HDFS 101IS
Math Level 400 (14 credits)	Math Level 150 (14 credits)
BIOB 170IN	BIOB 170IN
CHMY 141/142	M 090
M161Q	US CORE or WRIT 101W
US CORE or WRIT 101W	HDFS 101IS
Math Level 300 (16 credits)	Math Level 100 (15 credits)
BIOB 170IN	BIOB 170IN
M121Q	M 063 + M 090 (5 cr)
US CORE or WRIT 101W	US CORE or WRIT 101W
HDFS 101IS	HDFS 101IS



Teaching

- In this program, you have two advisors. Your assigned Program Advisor and for any education questions meet with an education advisor: RC Townsend or David Reese.
- For an example: student teaching, licenses, teaching education program requirements/application.



EDUCATION ADVISING







RC Townsend Advisor Book an appointment



Program Assessment for the Department of Ecology

- All incoming Freshman pursuing a B.S. in Biological Sciences are required to complete Program Assessment 1 and 2
- Program Assessment 1 Start of Freshman Year prior to taking their first course at MSU
- Program Assessment 2 End of Senior Year prior to graduation
- We are attempting to review the Degree Program and Courses offered by the Ecology department
- Good news—it's not graded. You can't fail this assessment
- We are not assessing you specifically, we are assessing the content and material you are learning over 4 year



Questions?



