

Wildlife and Fisheries Biology

Bachelor of Science Checksheet

Student Name _____

Total Transfer Credits _____

Checksheet Date _____

Graduates in the B.S. in Wildlife and Fisheries Biology will be able to:

1. Identify species, and where appropriate, sex, age class, and natural sign of common fish, wildlife, and plants, with emphasis on species of the Northeast region.
2. Draw on knowledge of research and policy to make sound scientifically based recommendations for future management and conservation practices.
3. Use appropriate tools and techniques to conduct common fish and wildlife research and management fieldwork.
4. Perform basic habitat and population assessments using standard analytical techniques.
5. Develop testable hypotheses based on scientific questions, use the primary literature to write proposals, design field- and/or lab-based experiments, conduct basic quantitative analyses, and write scientific reports.

Overview of Degree Requirements (120 Credits Total)

To earn the Bachelor of Science in Wildlife and Fisheries Biology degree, you must complete:

- General Education Core: 40 credits
- Major Core: 40 credits
- Electives: 40 credits

You must complete a minimum of 30 credits of coursework at the 300 level or above.

GENERAL EDUCATION CORE [40 CR.] COMPLETED ONLINE

- BIOL 105 Biological Diversity, Ecology, and Evolution (3 cr)
- BIOL 106 Biological Diversity, Ecology, and Evolution Laboratory (1 cr)
- COMM 101 Writing for Environmental Professionals (3 cr)
- COMM 201 Multimedia Communication for Environmental Professionals (3 cr)
- ENVJ 303 American Government: Foundations in Environmental Law (3 cr)
- ENVS 201 The Warming Planet: Understanding Climate Change (3 cr)
- ESCI 101 Geology and Our Environment (3 cr)
- EVPC 101 Professional Skills (3 cr)
- EVPC 201 Environmental Issues: Deforestation, Biodiversity Loss, and Overpopulation (3 cr) or EVPC 202 Environmental Issues: Energy, Water Scarcity, and Waste (3 cr)
- MATH 201 Statistics for Environmental Professionals (3 cr)
- PSYC 101 Introduction to Psychology (3 cr)

Program Highlights

Flexible and affordable, our Hybrid Learning programs offer students a new way to earn a degree from America's Environmental College. Students can choose where and how to learn according to individual preferences and ultimate career goals.

Unity College is an accredited institution by New England Commission of Higher Education.

With eight start dates per year, students can apply year-round and enter into the program at any point in the year.

Our five-week terms let students concentrate on just one or two classes at a time.

All classes are taught by faculty who are experts in their respective fields and trained in pedagogical practices specific to their modality, online or face-to-face.





COMPLETE ONE COURSE (3 CR) FROM EACH OF THE FOLLOWING CURRICULUM AREAS:

- Arts ARTS
- Humanities HUMN, SPAN

COMPLETED AT PROFESSIONAL PLACEMENT SITE:

- IS 3xx Internship (3 cr)

WILDLIFE AND FISHERIES BIOLOGY CORE [40 CR.]

COMPLETE ONE COURSE FROM EACH ROW IN THE TABLE BELOW. EACH REQUIREMENT HAS AN ONLINE OPTION AND AN IN-PERSON OPTION.

ONLINE OPTION (3 CR UNLESS INDICATED)	IN-PERSON OPTION (3 CR UNLESS INDICATED)
<input type="checkbox"/> BIOL 203 Ecological Principles: Applications to Conservation & Wildlife	<input type="checkbox"/> BI 204 Population & Community Ecology
<input type="checkbox"/> BIOL 201 Wildlife Plant Identification: Wildlands & Wildlife Habitat	<input type="checkbox"/> BI 201 Biology & Identification of Wildlife Plants
<input type="checkbox"/> GISC 101 Introduction to Geospatial Technologies	<input type="checkbox"/> ES 105 Understanding Place Through GIS
<input type="checkbox"/> BIOL 305 Conservation Biology	<input type="checkbox"/> BI 305 Conservation Biology
<input type="checkbox"/> MBAQ 307 Ichthyology & Fish Health	<input type="checkbox"/> BI 310 Organismal Biology: Theme
<input type="checkbox"/> CHEM 101 Inorganic Chemistry 1	<input type="checkbox"/> CH 101 General Chemistry 1
<input type="checkbox"/> CHEM 102 Inorganic Chemistry 1 Laboratory (1 cr)	<input type="checkbox"/> CH 102 General Chemistry 1 Laboratory (1 cr)
<input type="checkbox"/> MATH 215 Calculus	<input type="checkbox"/> MA 301 Data Science & Programming
<input type="checkbox"/> ECON 303 Macroeconomics for a Sustainable Planet	<input type="checkbox"/> SU 301 Ecological Economics
<input type="checkbox"/> WCON 303 Life History & Identification of Birds & Mammals	<input type="checkbox"/> WF 204 North American Wildlife
<input type="checkbox"/> WCON 305 Wildlife Conservation Genetics	<input type="checkbox"/> WF 320 Wildlife & Fisheries Techniques
<input type="checkbox"/> WCON 405 Population Management for Wildlife & Fisheries	<input type="checkbox"/> WF 311 Population Assessment & Management
<input type="checkbox"/> WCON 403 Habitat Management for Wildlife & Fisheries	<input type="checkbox"/> WF 310 Habitat Assessment & Management
<input type="checkbox"/> EVPC 490 Transdisciplinary Capstone	<input type="checkbox"/> WF 490 Wildlife & Fisheries Conservation Capstone

ELECTIVES [40 CR.]

Students looking to attend graduate school should take Calculus, Inorganic Chemistry 2 with lab, Organic Chemistry 1 with lab or Environmental Chemistry, Physics 1 with lab, Wildlife Conservation Genetics, Introduction to Geospatial Technologies, Geographic Information Systems for a Changing World, and Field Data Collection for GIS.

Job Outcomes	Growth*	Salary**
Wildlife/Fisheries Biologist	+5%	\$62,000
Field Technician	+9%	\$46,000
Plant and Wildlife Survey Technician	+3%	\$62,000
GIS Technician	+15%	\$65,000

*Projected 10-year growth **national median salary

Source: Burning Glass Technologies. Labor Insight™ - Accessed May 4, 2020.

