

College of Natural Resources and Environment
Department of Fish and Wildlife Conservation
Bachelor of Science in Fish and Wildlife Conservation
Major in Wildlife Conservation
Human Dimensions Option (WLHD)
For student date of entry under UG Catalog 2022-2023

Minimum hours for degree is 120. A minimum cumulative GPA of 2.0 is required for all work applied to the major.

Pathways Requirements (45 credits)

Concept 1f: Foundational Discourse (6 credits)

- ENGL 1105 First-Year Writing (3)
- ENGL 1106 First-Year Writing (3)

Concept 1a: Advanced/Applied Discourse (3 credits)

- ALCE 3634 Communicating Ag and Life Sciences in Speaking (3)
- COMM 2004 Public Speaking (3)

Concept 2: Critical Thinking in the Humanities (6 credits)

- Concept 2 course: _____ (3)
- Concept 2 Ethics elective (3) (choose one):
 - FREC/LAR/NR 2554 Leadership for Global Sustainability (3) (Recommended for Human Dimensions option)
 - PHIL 1304 Morality and Justice (3)
 - PHIL 2304 Global Ethics (3)

Concept 3: Reasoning in the Social Sciences (6 credits)

- Concept 3 course: _____ (3)
- Concept 3 Economics elective (3) (choose one):
 - AAEC 1005 or 1006 Economics of Food and Fiber Systems (3)
 - ECON 2005 or 2006 Principles of Economics (3)

Concept 4: Reasoning in the Natural Sciences (6 credits)

- BIOL 1105 Principles of Biology (3)
- BIOL 1106 Principles of Biology (3)

Concept 5f: Foundational Quantitative and Computational Thinking (6 credits)

- MATH 1025 Elementary Calculus or MATH 1225 Calculus of a Single Variable (3 or 4 credits)
- MATH 1026 Elementary Calculus (Pre: 1025) or MATH 1226 Calculus of a Single Variable (Pre:1225) (3 or 4 credits)

Concept 5a: Advanced Quantitative and Computational Thinking (3 credits) (Choose one)

- STAT 3604 Statistics for Social Science (Pre: MATH 1014 or MATH 1025 or MATH 1225 or MATH 1524 or MATH 1525) (3)
- STAT 3615 Biological Statistics (Pre: MATH 1025 or MATH 1205 MATH 1225 or MATH 1524 or ISC 1105) (3)

Concept 6: Critique and Practice in Design and the Arts (6 credits)

- Concept 6a course: _____ (3)
- Concept 6d course: _____ (3)

Concept 7: Critical Analysis of Identity and Equity in the United States (3 credits)

- Concept 7 course: _____ (3)

Common Degree CORE Requirements (20-21 credits)

- ___ BIOL 1115 Principles of Biology Laboratory (Pre: or Co: 1105) (1)
- ___ BIOL 1116 Principles of Biology Laboratory (Pre: or Co: 1106) (1)
- ___ BIOL 2704 Evolutionary Biology (Pre: (1005 or 1105 or 1205H or ISC 2105), (1006 or 1106 or 1206H)) (3)
- ___ FIW 2114 Principles of Fish and Wildlife Conservation (3)
- ___ FIW 4314 Conservation of Biological Diversity (Pre: 4414, 4434) (4) (Wildlife Majors) or FIW 4714 Fisheries Management (Pre: 3514) (4) (Fisheries Majors)
- ___ FIW 4414 Population Dynamics and Estimation (Pre: 2324) (3)
- ___ FIW 4464 Human Dimensions of Fisheries and Wildlife (Pre: 2114) (3)
- ___ NR 1234 FYE Natural Resources and Environment (3) -or- NR 2234 FSE for Transfer Students in CNRE (2)

Additional Common Degree Requirements (15 credits)

- ___ CHEM 1035 General Chemistry (Co: MATH 1025 or MATH 1225) (3)
- ___ CHEM 1036 General Chemistry (Pre: 1035 or 1055 or 1055H) (3)
- ___ CHEM 1045 General Chemistry Laboratory (Co: 1035) (1)
- ___ CHEM 1046 General Chemistry Laboratory (Pre: 1045 or 1065; Co: 1036) (1)
- ___ Experiential Learning Requirement (1) (choose one; requires department approval):
 - ___ FIW 2974 Independent Study (1-3)
 - ___ FIW 2994 Undergraduate Research (1-3)
 - ___ FIW 3964 Internship through Directed Field Study (1-3)
 - ___ FIW 4974 Independent Study (1-3)
 - ___ FIW 4994 Undergraduate Research (1-3)
 - ___ XXXX 3954 Study Abroad (1-3)
- ___ Legal Foundation Restricted Elective (3) (choose one):
 - ___ AAEC 3314 Environmental Law (3)
 - ___ FIW 2514 Fish and Wildlife Conservation Policy (3)
 - ___ FREC 4434 Natural Resource Policy (Pre: NR/FOR 4014 or FREC 4424 or ECON 4014) (3)
 - ___ UAP 3354 Introduction to Environmental Policy and Planning (3)
 - ___ UAP 4344 Law of Critical Environmental Areas (3)
- ___ Writing Restricted Elective (3) (choose one):
 - ___ ALCE 3624 Communicating Agriculture and Life Sciences in Writing (3)
 - ___ ENGL 3764 Technical Writing (Junior standing. Pre: 1106 or 1204H or COMM 1016) (3)
 - ___ ENGL 3774 Business Writing (Junior standing) (3)

Major Requirements (20 credits)

- ___ BIOL 3204 Plant Taxonomy (Pre: (1005 or 1105 or 1205H or ISC 2105), (1006 or 1106 or 1206H)) (3)
- ___ FIW 2314 Wildlife Biology (Pre: (BIOL 1105 or BIOL 1205H), (BIOL 1106 or BIOL 1106H)) (3)
- ___ FIW 2324 Wildlife Field Biology (3)
- ___ FIW 4214 Wildlife Field Techniques (Pre: 4414, STAT 3615 or 3604 [for Human Dimension option]) (3)
- ___ FIW 4434 Wildlife Habitat Ecology and Management (Pre: 2114) (3)
- ___ FREC 2324 Dendrology Laboratory (1)

- ___ Vertebrate Biology Restricted Elective (4 credits - must include labs) (choose one):
BIOL 4404 Ornithology (Pre: 2804) (4)
FIW 4334 Mammalogy (Pre: BIOL 2704) (4)
FIW 4344 Herpetology (Pre: BIOL 2704) (4)

Human Dimensions Option Requirements (15 credits)

- ___ Education, Outreach, & Interpretation Restricted Elective (3) (choose one):
ALCE 3004 Education Programs in Agricultural and Life Sciences
ALCE 4014 Introduction to Cooperative Extension
ALCE 4304 Community Education and Development (Pre: Junior Standing)
FREC 3524 Environmental Interpretation
FREC 3574 Environmental Education Service Learning
- ___ Stakeholder Engagement & Conflict Resolution Restricted Elective (3) (choose one):
FIW 4454 Human-Wildlife Conflict Resolution (Pre: Junior Standing)
PSVP 2044 Peace and Violence
RLCL/HUM 3204 Multicultural Communication
SOC 2034 Diversity Community Engagement
SPIA 1024 Community Service Learning
SPIA 2554 Collaborative Policy and Planning
STS 3105 Science and Technology in Modern Society
- ___ Ethics & Humanities Restricted Elective (3) (choose one):
HIST 3144 American Environmental History
PSCI/UAP 3344 Global Environmental Issues
STS/HIST 3705 History of Science
UAP 4264 Environmental Ethics (Pre: Junior or Senior Standing)
WATR/GEOG 2004 Water, Environment, and Society
- ___ Social Sciences Restricted Elective (3) (choose one):
AAEC 3324 Environmental and Sustainable Development Economics (Pre: 1005 or 1006 or
ECON 2005)
APS/AHRM/GEOG/HD/HUM/SOC/UAP 3464 Appalachian Communities
GEOG 3104 Environmental Problems, Population, and Development
HIST/SOC/STS 2604 Intro to Data in Social Context
SOC 2024 Sociology of Race and Ethnicity
SOC 3314 Social Movements (Pre:1004)
STS 2454 Science, Technology, and Environment
STS 3334 Energy and Society
- ___ Tourism, Recreation & Management (3) (choose one):
FIW 2234 Fish, Fishing, and Conservation
FREC 3544 Outdoor Recreation Management (Junior standing, Pre: 2554 or FOR 2554)
HTM 2554 Travel and Tourism Management
HTM 4484 International Tourism
HTM 3484 Socio-Cultural Impacts of Tourism

Free electives – 4-5 credits Degree Total 120 credits

Foreign Language¹

__ 2 years of one language in high school – or – FL 1105 and 1106 _____

Notes:

1. University Requirements—Foreign Language Policy

A sequence of two (2) foreign language courses is required for graduation unless two (2) high school units of the same foreign language or six (6) transfer credit hours of foreign language have been earned. These credits do not count toward graduation. See catalog section on “Graduation Requirements”.

2. Major Requirements

To earn a B.S. degree in Wildlife Conservation, a student must pass the following courses, or their equivalents, with a **grade of C - or better**: BIOL 1105, BIOL 1106, BIOL 1115, BIOL 1116; CHEM 1035, CHEM 1036, CHEM 1045, CHEM 1046; MATH 1026 or MATH 1226; FREC 2324; and FIW 2114.

There are no hidden prerequisites on this check sheet; however, course requirements may change over time, and students should always check for prerequisites for classes they select.

Students should consult www.fishwild.vt.edu/experiential_learning.html for more details on how to fulfill the experiential learning requirement. Note that you will not receive credit for your experiential learning until **ALL** the documents related to the experience are completed and submitted, in addition to being registered for the experience. Students enrolling in FIW 2974, 3964, or 4974 should use the P/F option; FIW 2994, 4994 and XXXX 3954 may be taken P/F or A/F.

To remain in good standing, a student must achieve and maintain an overall and in-major cumulative GPA of at least 2.0. Courses used for the in-major GPA computation include all those designated as FIW, FREC, GEOG, NR, and SBIO. To graduate, a student must achieve an overall and in-major cumulative GPA of at least 2.0.

In accordance with university guidelines, courses satisfying degree core requirements may not be double counted to satisfy other areas of a degree (e.g., Pathways).

If you plan to apply for The Wildlife Society Associate Wildlife Biologist certification, be aware that all courses used in the certification application must be passed with a C- or better beginning with applications submitted in 2023

3. Satisfactory Progress

By the end of the semester in which they have attempted 60 hours (including transfer, advanced placement, advanced standing, and credit by examination), students must pass the courses (or their equivalents) listed in item number 2 above.