

**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 students graduating in calendar year 2022 and for student date  
of entry under UG Catalog 2020-2021**

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)**

- 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 2554 (LAR 2554) (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 (3)
- MATH 1026 Elementary Calculus (Pre: 1025) (3)

**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) (Required for Human Dimensions Option)
- STAT 3615 Biological Statistics (Pre: MATH 1014 or MATH 1025 or MATH 1225 or MATH 1524 or ISC 1105) (3) (Required for FFC and MFC Options)

**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):  
(Department will process transaction when requirements have been met)
- 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)
- FREC 4434 Natural Resource Policy (Pre: NR 4014 or FREC 4424 or ECON 4014 or FOR 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 required) (3)

**Major Requirements (24 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 Electives (8 credits - must include labs) (choose two):

- BIOL 4404 Ornithology (Pre: 2804) (4)
- FIW 4334 Mammalogy (Pre: BIOL 2704) (4)
- FIW 4344 Herpetology (Pre: BIOL 2704) (4)

- Or -

- One from the 3 above and one additional one from above, or one from the 2 below:
- BIOL/ENT 4354 Aquatic Entomology (Pre: (1005,1006), (1015, 1016) or (1105, 1106, 1115, 1116)) (4)
- FIW 4424 Ichthyology (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 (Pre: FREC 2554 or FOR 2554)
- FREC 3574 Environmental Education Service Learning

\_\_\_ Stakeholder Engagement & Conflict Resolution Restricted Elective (3) (choose one):

- FIW 4454 Human-Wildlife Conflict Resolution (Pre: Senior 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 3705 (HIST 3705) History of Science
- UAP 4264 Environmental Ethics (Pre: Junior or Senior Standing)
- WATR 2004 (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 3484 Socio-Cultural Impacts of Tourism
- SPIA 2114 Public Service Leadership (1 credit hour)

## Foreign Language<sup>1</sup>

\_\_\_ 2 years of one language in high school – or – FL 1105 and 1106 \_\_\_\_\_

**Free electives – 0-1 credits    Degree Total 120 credits**

### 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, 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](http://www.fishwild.vt.edu/experiential_learning.html) for more details on how to fulfill the experiential learning requirement.

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.

**STUDENTS NOT MEETING THESE CRITERIA WILL NOT BE ALLOWED TO ENROLL IN 3xxx and 4xxx LEVEL FIW CLASSES.**

3. 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).

#### 4. 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.