COLLEGE OF NATURAL RESOURCES AND ENVIRONMENT
Department of Forest Resources and Environmental Conservation
Bachelor of Science in Forestry and Wildlife
Major: Environmental Resource Management
Option: Environmental Resource Management
For Students Graduating in Calendar Year 2016

Name: ___________________________  Student ID: ___________________________

Advisor: ___________________________  Expected graduation date: _____________

Minimum credit hours required for graduation is 120.

Major Core Degree Requirements (21 credits)

Forest Science (9 credits)
- FOR 2214 Introduction to Land and Field Measurements (3 credits)
- FOR 2314 Forest Biology and Dendrology (2 credits)
- FOR 2324 Dendrology Lab (1 credit)
- FOR 3364 Forest Ecology & Sustainability (3 credits)

Environmental Economics (3 credits)
- FOR 4014 Natural Resources Economics (3 credits)

Policy (3 credits)
- FOR 4434 Forest Resource Policy (3 credits)

Oral Communication (3 credits – choose one)
- COMM 2004 Public Speaking (3 credits)
- AEE 3634 Communicating Agriculture & Life Sciences in Speaking (3 credits)

Geospatial Analysis (3 credits – choose one)
- FOR 4114 Information Technologies for Natural Resource Management (3 credits)
- FOR 4214 Forest Photogrammetry (3 credits)
- GEOG 4084 Introduction to Geographic Information Systems (3 credits)
- GEOG 4554 Introduction to Remote Sensing (3 credits)

Option Requirements (34 credits)
- CHEM 1035 General Chemistry (3 credits)
- CHEM 1045 General Chemistry Lab (1 credit)
- FOR 2414 Field Experiences in Forest Resources (2 credits)
- FOR 4554 Forest Soils and Hydrology (3 credits)
- CSES 3134 Soils in the Landscape (3 credits)
- STAT 3615 Biological Statistics (3 credits)
- FOR 4374 Forested Wetlands (3 credits)
- GEOS 1024 Resources Geology (3 credits)
- GEOS 1124 Resources Geology Lab (1 credit)
- Ecosystem Science (3 credits – choose one)
- FOR 2004 Forest Ecosystems (3 credits)
- BIOL 2804 Ecology (3 credits)
- GEOS 3014 Environmental Geosciences (3 credits)
- UAP 3354 Introduction to Environmental Policy and Planning (3 credits)
- UAP 4374 Land Use and Environment: Planning and Policy (3 credits)
Environmental Education Restricted Electives (12 or 13 credits – see lists below)

**Law Restricted Electives**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>AAFC 3314</td>
<td>Environmental Law</td>
<td>3</td>
</tr>
<tr>
<td>AAEC 3604</td>
<td>Agricultural Law</td>
<td>3</td>
</tr>
<tr>
<td>FIN 3055</td>
<td>Legal Environment of Business</td>
<td>3</td>
</tr>
<tr>
<td>UAP 4754</td>
<td>Legal Foundations of Planning</td>
<td>3</td>
</tr>
<tr>
<td>UAP 4344</td>
<td>Law of Critical Environmental Areas</td>
<td>3</td>
</tr>
</tbody>
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**Global Environmental Issues Restricted Electives**

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<tbody>
<tr>
<td>AAFC 3204</td>
<td>International Agricultural Development and Trade</td>
<td>3</td>
</tr>
<tr>
<td>FOR 2124</td>
<td>Forests, Society &amp; Climate</td>
<td>3</td>
</tr>
<tr>
<td>FOR 2784</td>
<td>World Forests and Forest Products</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 3104</td>
<td>Environmental Problems, Population and Development</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 4204</td>
<td>Geography of Resources</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 4764</td>
<td>International Development</td>
<td>3</td>
</tr>
<tr>
<td>UAP 3344</td>
<td>Global Environmental Issues: Interdisciplinary Perspectives</td>
<td>3</td>
</tr>
<tr>
<td>UAP 4214</td>
<td>Women, Environment and Development in Global Perspective</td>
<td>3</td>
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**Public Relations Restricted Electives**

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<tr>
<th>Course Code</th>
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</thead>
<tbody>
<tr>
<td>FOR 3524</td>
<td>Environmental Interpretation</td>
<td>3</td>
</tr>
<tr>
<td>COMM 2044</td>
<td>Principles of Public Relations (pre-req.: COMM 1014)</td>
<td>3</td>
</tr>
<tr>
<td>COMM 3204</td>
<td>Multicultural Communication</td>
<td>3</td>
</tr>
<tr>
<td>COMM 3244</td>
<td>Political Communication (pre-req.: PSCI 1014 or 1024)</td>
<td>3</td>
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<tr>
<td>UAP 4184</td>
<td>Community Involvement</td>
<td>3</td>
</tr>
</tbody>
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**Aquatic Life Restricted Electives**

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<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 4004</td>
<td>Freshwater Ecology</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 4354</td>
<td>Aquatic Entomology</td>
<td>4</td>
</tr>
<tr>
<td>FIW 4614</td>
<td>Fish Ecology</td>
<td>3</td>
</tr>
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**CLE Requirements (36 credit hours)**

**Area 1: Writing and Discourse (6 credit hours required)**

- ENGL 1105 Freshman English (3 credits) **ENGL 115**
- ENGL 1106 Freshman English (3 credits) **ENGL 116**

**Area 2: Ideas, Cultural Traditions, and Values (6 credit hours required)**

- FOR 2554 Nature and American Values (3 credits)
- **CLE Area 2 course:** (3 credits)

**Area 3: Society and Human Behavior (6 credit hours required)**

- AAEC 1005 Economics of the Food & Fiber System or ECON 2005 Principles of Economics (3 credits)
- **CLE Area 3 course:** (3 credits)
Area 4: Scientific Reasoning and Discovery (8 credit hours required)
- BIOL 1105 Principles of Biology (3 credits) 7B10 101
- BIOL 1115 Principles of Biology Lab (1 credits)
- BIOL 1106 Principles of Biology (3 credits)
- BIOL 1116 Principles of Biology Lab (1 credits) 7B10 102

Area 5: Quantitative and Symbolic Reasoning (6 credit hours required)
- MATH 1016 Elementary Calculus with Trigonometry I (3 credits) MTH 175, 270, or 271
- MATH 2015 Elementary Calculus with Trigonometry II (3 credits) MTH 175, 272, or 274

Area 6: Creativity and Aesthetic Experience (1 credit hour required)
CLE Area 6 course: ____________________________________________ (1 credit)

Area 7: Critical Issues in a Global Context (3 credit hours required)
- FIW 2114 Principles of Fish & Wildlife (3 credits)

Free Electives (16 or 17 credits)
____________________________________________________________________
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IMPORTANT NOTES ON THE FOLLOWING PAGE.
ENVIRONMENTAL RESOURCE MANAGEMENT NOTES

1. **Satisfactory Progress**: By the end of the semester in which the student has attempted 60 hours (including transfer, advanced placement, advanced standing, and credit by examination), "satisfactory progress" towards a B.S. degree in the College of Natural Resources will include the following minimum criteria:
   - Having an in-major and overall grade point average of at least 2.0
   - Passing at least 24 semester credits that apply to the Curriculum for Liberal Education (CLE)
   - Passing the following courses or their equivalents: BIOL 1103, 1106, 1115, and 1116; CHEM 1035 and MATH 2015.

2. **Foreign Language Requirement**: A sequence of two (2) foreign language courses is required for graduation unless two (2) high school credits 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."

3. **Policy on Student Exchanges**: Studying overseas or at another U.S. university is a wonderful opportunity to enhance your education. However, planning for an exchange should begin at least 9 months prior to leaving. This will allow time to determine what substitutions, if any, will be allowed and time to arrange your schedule at Virginia Tech to ensure that all requirements for graduation are met.

4. **In-major grade point average computation**: Includes all courses designated as FIW, FOR, GEOG, NR, SBIO, and GEOS.

5. An in-major and overall GPA of 2.0 is required for graduation.