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)
- AFE 3634 Communicating Agriculture & Life Sciences in Speaking (3 credits)
- FOR 3524 Environmental Interpretation (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)
Option Requirements (43 or 44 credits)
- CHEM 1035 General Chemistry (3 credits)
- CHEM 1045 General Chemistry Lab (1 credit)
- CHEM 1036 General Chemistry (3 credits)
- CHEM 1046 General Chemistry Lab (1 credit)
- GEOS 1084 Physical Geology (3 credits)
- ENSC 3604 Fundamentals of Environmental Science (3 credits)
- FOR 3104 Principles of Watershed Hydrology (3 credits)
- PHYS 2205 General Physics (3 credits)
- PHYS 2206 General Physics (3 credits)
- STAT 3615 Biological Statistics (3 credits)
- CSES 3134 Soils in the Landscape (3 credits)
- Forestry Elective (3 credits – choose one)
- FOR 3724 Forest Boundaries and Roads (3 credits)
- FOR 3714 Forest Harvesting (3 credits)
- FOR 4354 Forest Soils & Hydrology (3 credits)
- FOR 4374 Forested Wetlands (3 credits)
Aquatic Ecosystems Elective (3 or 4 credits – choose one)
  __ BIOL 4004 Freshwater Ecology (3 credits)
  __ BIOL 4354 Aquatic Entomology (4 credits)
  __ FIW 4534 Ecology and Management of Wetland Systems (3 credits)
  __ ALS 4614 Watershed Assessment, Management, and Policy (2 credits)

Restricted Electives (6 credits – see accompanying lists)
  __ Planning and Law Restricted Elective (3 credits)
  __ Global Environmental Issues Restricted Elective (3 credits)

CLEF Requirements (36 credits)
Area 1: Writing and Discourse (6 credit hours required)
  __ ENGL 1105 Freshman English (3 credits) ENGL 1111
  __ ENGL 1106 Freshman English (3 credits) ENGL 1112

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)
  __ AEBC 1005 Economics of the Food & Fiber System or ECON 2005 Principles of Economics ECON 202
  (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)
  __ BIOL 1115 Principles of Biology Lab (1 credit) 7 Bio 101
  __ BIOL 1106 Principles of Biology (3 credits)
  __ BIOL 1116 Principles of Biology Lab (1 credit) 7 Bio 102

Area 5: Quantitative and Symbolic Reasoning (6 credit hours required)
  __ MATH 1016 Elementary Calculus with Trigonometry I (3 credits)
  __ MATH 2015 Elementary Calculus with Trigonometry II (3 credits)
  MATH 175, 270, or 271
  MATH 176, 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 Fisheries & Wildlife Management (3 credits)

Free Electives (13 or 14 credits)
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Watershed Management Restricted Electives (substitutions possible with approval)

Planning and Law Restricted Elective

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>AAEC</td>
<td>3314 Environmental Law</td>
<td>3</td>
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<tr>
<td>AAEC</td>
<td>3604 Agricultural Law</td>
<td>3</td>
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<tr>
<td>FIN</td>
<td>3055 Legal Environment of Business</td>
<td>3</td>
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<td>UAP</td>
<td>4754 Legal Foundations of Planning</td>
<td>3</td>
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<tr>
<td>UAP</td>
<td>4374 Land Use and Environment</td>
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</table>

Global Environmental Issues Restricted Elective

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>AAEC</td>
<td>3204 International Agricultural Development and Trade</td>
<td>3</td>
</tr>
<tr>
<td>FOR</td>
<td>2124 Forests, Society &amp; Climate</td>
<td>3</td>
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<tr>
<td>FOR</td>
<td>2784 Global Forest Sustainability</td>
<td>3</td>
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<tr>
<td>GEOG</td>
<td>3104 Environmental Problems, Population and Development</td>
<td>3</td>
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<tr>
<td>GEOG</td>
<td>4204 Geography of Resources</td>
<td>3</td>
</tr>
<tr>
<td>GEOG</td>
<td>4764 International Development</td>
<td>3</td>
</tr>
<tr>
<td>UAP</td>
<td>3344 Global Environmental Issues: Interdisciplinary Perspectives</td>
<td>3</td>
</tr>
</tbody>
</table>

WATERSHED 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 1105, 1106, 1115, and 1116, CHEM 1035 and 1036, 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 6 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. **Some courses must be taken in sequence to satisfy prerequisites.** Consult your advisor.

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

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