The Forest Resources and Conservation (FRC) major provides students a solid understanding of ecology, while developing expertise through one of 7 specializations in the management of ecosystems to meet society’s demands for a vast array of economic, ecological and social products and services.

The curriculum for this major is broad, with required coursework in forest ecology, natural resource measurement and analysis, soil science, plant identification, silviculture, social dimensions of natural resource management, natural resource economics and policy, management of water resources, fire management and interdisciplinary natural resource management.

About this Program
- **College:** Agricultural and Life Sciences
- **Degree:** Bachelor of Science in Forest Resources and Conservation
- **Credits for Degree:** 120
- **Specializations:** Environmental Pre-Law | Forest Business Management | Forest Resource Management | Protected Areas Management | Recreation Resources Management | Urban Forestry | Watershed Science and Management
- **Additional Information**
- **Contact:** Email
- **Related Forest Resources and Conservation Programs**

To graduate with this major, students must complete all university, college, and major requirements.

Specializations
**Forest Resource Management**
Accredited by the Society of American Foresters and is for students seeking careers as professional forest resource managers who apply science-based strategies to managing publicly and privately-owned forest lands.

**Urban Forestry**
Accredited by the Society of American Foresters and is for students with interests in forest management in the typically local-scale forests in urban-suburban landscapes, and at the interface of urban and undeveloped lands.

**Environmental Pre-Law**
Accredited by the Society of American Foresters and provides a solid basis of forest and natural resources science and management upon which is built a broad introduction to the policies, ethics, and processes affecting the use of natural resources.

**Protected Areas Management**
Accredited by the Society of American Foresters and is for students interested in managing lands for conservation and restoration purposes, usually on public lands managed by the government or by lands owned by private conservation organizations.

**Recreation Resources Management**
Accredited by the Society of American Foresters and focuses on the sustainable management of recreation lands as a natural resource and understanding human dimensions as related to their use.

**Forest Business Management**
Accredited by the Society of American Foresters and gives students a sound background in natural resource management and a broad introduction to business as appropriate for students interested in consulting, real estate or working for forest industry.

**Watershed Science and Management**
Prepares students to address the many and varied management issues associated with water resources, including wetlands, soils, policy, and water quality.

**Related Forest Resources and Conservation Programs**
- **Combined Degree**
- **Forest Resources and Conservation minor**
- **Bachelor of Science in Natural Resource Conservation**

Environmental Pre-Law
This specialization provides a solid basis of forest and natural resources science and management upon which is built a broad introduction to the policies, ethics, and processes affecting the use of natural resources.

*Note that critical tracking is the same for all specializations of this major.*

Critical Tracking records each student's progress in courses that are required for entry to each major. Please note the critical-tracking requirements below on a per-semester basis.

Equivalent critical-tracking courses as determined by the State of Florida Common Course Prerequisites may be used for transfer students.

**Semester 1**
- Complete 1 of 7 critical-tracking courses: AEB 2014 or ECO 2013 or ECO 2023, AEC 3030C or SPC 2608, AEC 3033C, BSC 2010/BSC 2010L, CHM 1030 or CHM 2045, MAC 1105, STA 2023
- 2.5 GPA required for all critical-tracking courses
- 2.0 UF GPA required

**Semester 2**
- Complete 1 additional critical-tracking courses
- 2.5 GPA required for all critical-tracking courses
- 2.0 UF GPA required

**Semester 3**
- Complete 1 additional critical-tracking courses
- 2.5 GPA required for all critical-tracking courses
- 2.0 UF GPA required
### Semester 4
- Complete 2 additional critical-tracking courses
- 2.5 GPA required for all critical-tracking courses
- 2.0 UF GPA required

### Semester 5
- Complete all 7 critical-tracking courses
- 2.5 GPA required for all critical-tracking courses
- 2.0 UF GPA required

To remain on track, students must complete the appropriate critical-tracking courses, which appear in bold. These courses must be completed by the terms as listed above in the Critical Tracking criteria.

This semester plan represents an example progression through the major. Actual courses and course order may be different depending on the student’s academic record and scheduling availability of courses. Prerequisites still apply.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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<tr>
<td>IUF 1000</td>
<td>What is the Good Life (Gen Ed Humanities)</td>
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<td>CHM 1030</td>
<td>Basic Chemistry Concepts and Applications 1 (Critical Tracking; State Core Gen Ed Biological and Physical Sciences)</td>
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<tr>
<td>CHM 2045</td>
<td>General Chemistry 1 (Critical Tracking; State Core Gen Ed Biological and Physical Sciences)</td>
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<td>State Core Gen Ed Composition; Writing Requirement</td>
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<td>3</td>
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<tr>
<td>FOR 2662</td>
<td>Forests for the Future (Gen Ed Social and Behavioral Sciences; recommended course)</td>
<td>3</td>
</tr>
<tr>
<td>Elective</td>
<td></td>
<td>3</td>
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</table>

### Semester Two
- MAC 1105 | Basic College Algebra (Critical Tracking; State Core Gen Ed Mathematics) | 3 |
- BSC 2010 & 2010L | Integrated Principles of Biology 1 and Integrated Principles of Biology Laboratory 1 (Critical Tracking) | 4 |
- FAS 2024 | Global and Regional Perspectives in Fisheries (recommended elective) | 3 |
| State Core Gen Ed Social and Behavioral Sciences | | 3 |
| Elective | | 3 |

### Semester Three
- AEC 3033C | Research and Business Writing in Agricultural and Life Sciences (Critical Tracking; Writing Requirement) | 3 |
- STA 2023 | Introduction to Statistics 1 (Critical Tracking; Gen Ed Mathematics) | 3 |
| FOR 2662 | Forests for the Future (recommended, if not already taken) 2 | 3 |
| Gen Ed Composition | | 3 |
| Elective | | 2 |

### Semester Four
- Select one:
  - AEB 2014 | Economic Issues, Food and You (Critical Tracking) | 3-4 |
  - ECO 2013 | Principles of Macroeconomics (Critical Tracking) | 3 |
  - ECO 2023 | Principles of Microeconomics (Critical Tracking; Gen Ed Social and Behavioral Sciences) | 3 |
  - AEC 3030C | Effective Oral Communication (Critical Tracking) | 3 |
  - SPC 2608 | Introduction to Public Speaking (Critical Tracking) | 3 |
  - FAS 2024 | Global and Regional Perspectives in Fisheries (recommended elective, if not already taken) | 3 |
  - PHY 2020 | Introduction to Principles of Physics (recommended; or other Gen Ed Physical Sciences) | 3 |
| State Core Gen Ed Humanities | | 3 |

### Summer After Semester Four
- FOR 3200C | Foundations of Natural Resources and Conservation (Summer B only) | 3 |
- FOR 3434C | Forest Resources Information Systems (Summer B only) | 3 |
| Elective | | 1 |

### Semester Five
- BUL 4310 | The Legal Environment of Business | 4 |
- CPO 4793 | Environmental Politics in the Global South | 3 |
- FOR 3153C | Forest Ecology | 3 |
| Elective | | 4 |
| Summer After Semester Five | | 1 |

### Semester Six
- AEB 4085 | Agricultural Risk Management and the Law | 3 |
- AEB 4126 | Agricultural and Natural Resource Ethics | 3 |
- FNR 3410C | Natural Resource Sampling | 3 |
- SWS 3022 | Introduction to Soils in the Environment | 3 |
- GIS 3072C | Geographic Information Systems | 3 |
| Directed elective | | 1 |

### Semester Seven
- BUL 4310 | The Legal Environment of Business | 4 |
- CPO 4793 | Environmental Politics in the Global South | 3 |
- FOR 3162C | Silviculture | 4 |
- FOR 3202 | Society and Natural Resources | 3 |
| Elective | | 3 |

### Semester Eight
- AEB 4085 | Agricultural Risk Management and the Law | 3 |
- AEB 4126 | Agricultural and Natural Resource Ethics | 3 |
- FNR 4623C | Integrated Natural Resource Management | 3 |
- FOR 3214 | Fire Ecology and Management | 2 |
- FOR 3214L | Fire Ecology and Management Laboratory (optional) | 0-1 |
| Directed elective | | 1 |
| Elective | | 3 |

Total Credits: 120

### Notes:
1. Students must have a minimum GPA of 2.0 in all critical-tracking courses.
2. Students must complete at least 36 credit hours of critical-tracking courses by the end of the semester.
3. Students must maintain a minimum GPA of 2.5 in all critical-tracking courses.
4. Students must complete the appropriate critical-tracking courses in the specified terms.
5. Students must complete a minimum of 24 credit hours in the major.
6. Students must complete a minimum of 12 credit hours in the minor.
7. Students must complete a minimum of 36 credit hours in the university core.
8. Students must complete a minimum of 48 credit hours at the university.
9. Students must complete a minimum of 120 credit hours to graduate.
Placement tests and/or prerequisites may be necessary for access to certain courses.

Course availability may necessitate departure from this course sequence. Except for certain courses where sequence is important, successful completion is more important than the sequence in which the courses are taken.

The summer term between the junior and senior year is normally reserved for professional work experience. For questions regarding opportunities, email the SFRC Student Services office.

The forest resources and conservation major provides a broad education in the ecological, economic and social aspects of forest and natural resources and their management. The major also provides national accreditation from the Society of American Foresters.

Before Graduating Students Must

• Pass the forest resources and conservation competency exam, given in five parts. One part will be given in each of these required courses:

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<thead>
<tr>
<th>Code</th>
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<td>FNR 3131C</td>
<td>Dendrology/Forest Plants</td>
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<tr>
<td>FNR 3410C</td>
<td>Natural Resource Sampling</td>
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<td>FNR 4040C</td>
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<td>FNR 4623C</td>
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<td>FNR 4660</td>
<td>Natural Resource Policy and Economics</td>
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• Complete requirements for the baccalaureate degree, as determined by faculty.

Assessment Types

• Final group project
• Exams
• Program exit exam

Students in the Major Will Learn to
Student Learning Outcomes (SLOs)

Content
1. Demonstrate competency in biology/ecology, quantification, policy/administration and management of forest and related natural resources.
2. Analyze, interpret, synthesize and communicate information and data, including the use of mathematical and statistical methods.

Critical Thinking
3. Solve novel problems in forest and natural resource management.

Communication
4. Create, interpret and analyze written text, oral messages and multimedia presentations.

Curriculum Map

<table>
<thead>
<tr>
<th>Courses</th>
<th>SLO 1</th>
<th>SLO 2</th>
<th>SLO 3</th>
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