FOREST RESOURCES AND CONSERVATION | URBAN FORESTRY

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

Urban Forestry
This specialization 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.

Critical Tracking

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

**Semester 3**
- Complete 2 additional critical-tracking courses
- 2.5 GPA required for all critical-tracking courses
- 2.0 UF GPA required
Semester Four
• Complete 2 additional critical-tracking courses
• 2.5 GPA required for all critical-tracking courses
• 2.0 UF GPA required

Semester Five
• Complete all 7 critical-tracking courses
• 2.5 GPA required for all critical-tracking courses
• 2.0 UF GPA required

Model Semester Plan
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</td>
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<td>CHM 2045</td>
<td>General Chemistry 1 (Critical Tracking; State Core Gen Ed Biological and Physical Sciences)</td>
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<td>FOR 2662</td>
<td>Forests for the Future (Gen Ed Social and Behavioral Sciences; recommended course)</td>
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<td>State Core Gen Ed Composition; Writing Requirement</td>
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<td>Elective</td>
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<td><strong>Semester Two</strong></td>
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<td>BSC 2010 &amp; 2010L</td>
<td>Integrated Principles of Biology 1 and Integrated Principles of Biology Laboratory 1 (Critical Tracking)</td>
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<td>MAC 1105</td>
<td>Basic College Algebra (Critical Tracking; or higher; State Core Gen Ed Mathematics)</td>
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<tr>
<td>FAS 2024</td>
<td>Global and Regional Perspectives in Fisheries (recommended elective)</td>
<td>3</td>
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<tr>
<td>State Core Gen Ed Social and Behavioral Sciences</td>
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<td>Elective</td>
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<td><strong>Semester Three</strong></td>
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<td>AEC 3030C</td>
<td>Research and Business Writing in Agricultural and Life Sciences (Critical Tracking; Writing Requirement)</td>
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<td>STA 2023</td>
<td>Introduction to Statistics 1 (Critical Tracking; Gen Ed Mathematics)</td>
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<tr>
<td>FOR 2662</td>
<td>Forests for the Future (recommended, if not already taken)</td>
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<tr>
<td>Gen Ed Composition</td>
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<td>Select one:</td>
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AEB 2014 | Economic Issues, Food and You (Critical Tracking) |
ECO 2013 | Principles of Macroeconomics (Critical Tracking) |
ECO 2023 | Principles of Microeconomics (Critical Tracking; Gen Ed Social and Behavioral Sciences) |
AEC 3030C | Effective Oral Communication (Critical Tracking) |
SPC 2608 | Introduction to Public Speaking (Critical Tracking) |
FAS 2024 | Global and Regional Perspectives in Fisheries (recommended elective, if not already taken) | 3 |
PHY 2020 | Introduction to Principles of Physics (Gen Ed Physical Sciences; recommended course) | 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 |

**Semester Five**
FNR 3131C | Dendrology/Forest Plants | 3 |
FNR 3410C | Natural Resource Sampling | 3 |
FOR 3153C | Forest Ecology | 3 |
SWS 3022 | Introduction to Soils in the Environment | 3 |
SWS 3022L | Introduction to Soils in the Environment Laboratory (optional) | 0-1 |
State Core Gen Ed Humanities | 3 |

**Semester Six**
FOR 3162C | Silviculture | 4 |
FOR 3202 | Society and Natural Resources | 3 |
FOR 3342C | Tree Biology | 3 |
ORH 4242C | Arboriculture | 4 |

**Semester Seven**
FNR 4624C or ORH 3513C | Field Operations for Management of Ecosystems or Environmental Plant Identification and Use | 3 |
FNR 4660 | Natural Resource Policy and Economics | 3 |
FOR 4020 | Seminar in Contemporary Issues in Forest Resources and Conservation | 1 |
WIS 3401 | Wildlife Ecology and Management | 3 |
Directed elective | 2 |
Social dimensions elective | 2 |

**Semester Eight**
FOR 3214 | Fire Ecology and Management | 2 |
FOR 3214L | Fire Ecology and Management Laboratory (optional) | 0-1 |
FOR 4090C | Urban Forestry | 3 |
FNR 4343C | Forest Water Resources | 3 |
FNR 4623C | Integrated Natural Resource Management | 3 |
FOR 4624C | Forest Health Management | 3 |

Credits | 14-15 |
Total Credits | 120 |
Can substitute ENC 2210 or ENC 3254.

2 Elective: FOR 2662 recommended, if not already taken; or FOR 3004 recommended.

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.

Academic Learning Compact
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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<td>FNR 3410C</td>
<td>Natural Resource Sampling</td>
<td>3</td>
</tr>
<tr>
<td>FNR 4040C</td>
<td>Integrated Natural Resource Management</td>
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</tr>
<tr>
<td>FNR 4623C</td>
<td>Natural Resource Policy and Economics</td>
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</table>

- Complete requirements for the baccalaureate degree, as determined by faculty.

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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Assessment Types
- Final group project
- Exams
- Program exit exam