FOREST RESOURCES AND CONSERVATION | PROTECTED AREAS MANAGEMENT

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 Resource 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.

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

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 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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<tbody>
<tr>
<td>IUF 1000</td>
<td>What is the Good Life (Gen Ed Humanities)</td>
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<tr>
<td>CHM 1030</td>
<td>Basic Chemistry Concepts and Applications</td>
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<tr>
<td>CHM 2045</td>
<td>General Chemistry 1 (Critical Tracking; Biological and Physical Sciences)</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>
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<tr>
<td>STA 2023</td>
<td>Introduction to Statistics 1 (Critical Tracking; Gen Ed Mathematics)</td>
<td>3</td>
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<tr>
<td>MAC 1105</td>
<td>Basic College Algebra (Critical Tracking; or higher; State Core Gen Ed Mathematics)</td>
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<td>FAS 2024</td>
<td>Global and Regional Perspectives in Fisheries (recommended elective)</td>
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<td>State Core Gen Ed Social and Behavioral Sciences Elective</td>
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### Semester Two

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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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<td>FAS 2024</td>
<td>Global and Regional Perspectives in Fisheries (recommended elective)</td>
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### Semester Three

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<tr>
<th>Course</th>
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<tr>
<td>AEC 3033C</td>
<td>Research and Business Writing in Agricultural and Life Sciences (Critical Tracking; Writing Requirement</td>
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<tr>
<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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<td>Gen Ed Composition</td>
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Elective

Semester Four
Select one:
- 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)

Select one:
- 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)
- PHY 2020 Introduction to Principles of Physics (Gen Ed Physical Sciences; recommended course)

State Core Gen Ed Humanities

Credits 3

Summer After Semester Four

FOR 3200C Foundations of Natural Resources and Conservation (Summer B only)

FOR 3434C Forest Resources Information Systems (Summer B only)

Credits 6

Semester Five

- FNR 3131C Dendrology/Forest Plants
- FNR 3410C Natural Resource Sampling
- FOR 3153C Forest Ecology
- FOR 4664 Sustainable Ecotourism Development
- SWS 3022 Introduction to Soils in the Environment
- SWS 3022L Introduction to Soils in the Environment Laboratory (optional)

Credits 15-16

Semester Six

- FOR 3162C Silviculture
- FOR 3202 Society and Natural Resources
- FOR 3430C Forest Mensuration or WIS 4554 Conservation Biology
- FOR 4110 Ecology and Restoration of Longleaf Pine Ecosystems
- FOR 4941 Internship in Natural Resources (often completed during this summer term)

Credits 15

Semester Seven

- AEB 3450 Introduction to Natural Resource and Environmental Economics
- FNR 4624C Field Operations for Management of Ecosystems
- FNR 4660 Natural Resource Policy and Economics
- FOR 4020 Seminar in Contemporary Issues in Forest Resources and Conservation
- WIS 3401 Wildlife Ecology and Management

Credits 13

Semester Eight

- FNR 4343C Forest Water Resources
- FNR 4623C Integrated Natural Resource Management
- FOR 3214 Fire Ecology and Management

Credits 11-12

Total Credits 120

1. 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.

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:
  - [Code] [Title] [Credits]
  - FNR 3131C Dendrology/Forest Plants 3
  - FNR 3410C Natural Resource Sampling 3
  - FOR 3153C Forest Ecology 3
  - FOR 4664 Sustainable Ecotourism Development 3
  - SWS 3022 Introduction to Soils in the Environment 3
  - SWS 3022L Introduction to Soils in the Environment Laboratory (optional) 0-1

- 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**

I = Introduced; R = Reinforced; A = Assessed
### Courses

<table>
<thead>
<tr>
<th>Courses</th>
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<th>SLO 2</th>
<th>SLO 3</th>
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### Assessment Types

- Final group project
- Exams
- Program exit exam