FOREST RESOURCES AND CONSERVATION | FOREST BUSINESS 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 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**

**Forest Business Management**
This specialization provides 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.

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 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

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.

Course | Title | Credits
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IUF 1000 | What is the Good Life (Gen Ed Humanities) | 3

Select one:

CHM 1030 | Basic Chemistry Concepts and Applications 1 (Critical Tracking; State Core Gen Ed Biological and Physical Sciences) | 3

CHM 2045 | General Chemistry 1 (Critical Tracking; State Core Gen Ed Biological and Physical Sciences) | 3

State Core Gen Ed Composition; Writing Requirement | 3

FOR 2662 | Forests for the Future (Gen Ed Social and Behavioral Sciences; recommended course) | 3

Elective | 3

Semester Two
BSC 2010 & 2010L | Integrated Principles of Biology 1 and Integrated Principles of Biology Laboratory 1 (Critical Tracking) | 4

MAC 1105 | Basic College Algebra (Critical Tracking; or higher; State Core Gen Ed Mathematics) | 3

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) | 3

Gen Ed Composition | 3

Elective | 2

Semester Four
Select one:

FOR 3214L | Fire Ecology and Management Laboratory (optional) | 0-1

FOR 3214 | Fire Ecology and Management | 2

FOR 3430C | Forest Mensuration | 3

FOR 4020 | Seminar in Contemporary Issues in Forest Resources and Conservation | 1

FOR 4261 | Forest Economics and Management | 4

Approved elective | 3

Elective | 3

Semester Five
AEB 3133 | Principles of Agribusiness Management | 3

FNR 3131C | Dendrology/Forest Plants | 3

FNR 3410C | Natural Resource Sampling | 3

FOR 3153C | Forest Ecology | 3

Elective | 3

Semester Six
AEB 3122 | Financial Planning for Agribusiness | 3

FOR 3162C | Silviculture | 4

FOR 3202 | Society and Natural Resources | 3

FOR 3430C | Forest Resources Information Systems | 3

Elective | 3

Semester Seven
FNR 4624C | Field Operations for Management of Ecosystems | 3

FNR 4660 | Natural Resource Policy and Economics | 3

FOR 4020 | Seminar in Contemporary Issues in Forest Resources and Conservation | 1

FOR 4621 | Forest Economics and Management | 4

Approved elective | 3

Elective | 3

Semester Eight
ACG 2021 | Introduction to Financial Accounting | 4

AEB 4123 | Agricultural and Natural Resource Law | 3

FNR 4343C | Forest Water Resources | 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

Elective | 3

Credits | 15-16

Total Credits | 120

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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.

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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<tr>
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<th>Credits</th>
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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.

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

\( I = \text{Introduced}; R = \text{Reinforced}; A = \text{Assessed} \)

<table>
<thead>
<tr>
<th>Courses</th>
<th>SLO 1</th>
<th>SLO 2</th>
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Assessment Types

- Final group project
- Exams
- Program exit exam