NATURAL RESOURCE CONSERVATION

The natural resource conservation (NRC) major enables students to tailor a curriculum that suits their interests and career goals for this field. Working with a faculty advisor, students can elect to focus their curriculum on any number of natural resource conservation or management fields. Students preparing for advanced degrees in natural resources often elect to complete a broad, interdisciplinary program.

About this Program
• **College:** Agricultural and Life Sciences
• **Degree:** Bachelor of Science in Forest Resources and Conservation
• **Credits for Degree:** 120
• **Additional Information**
• **Contact:** Email

About this Program

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

All NRC majors are required to complete eight core courses (minimum 24 credits) that span and integrate across forest, wildlife, fisheries, and aquatic resources, including bio-physical and socio-economic domains. These courses embrace conservation and production objectives and span local to global scales. They stress the complexities in achieving social, environmental and economic sustainability, develop critical thinking skills, create significant and valuable field experience, and provide the tools needed for graduates to manage, conserve, and educate people about natural resources.

Students work closely with a faculty advisor to select the remaining 36 upper-division credits to create a curriculum plan designed to meet the specific goals of each student. Each curriculum plan must be approved by the program's undergraduate coordinator before the student reaches 70 credits.

This major is also offered at the West Florida Research and Education Center in Milton, FL. Ideal for place-bound students, this version of the NRC major provides a broad ecology/environmental management curriculum.

Related Natural Resource Conservation Programs
• Combined Degree
• Bachelor of Science in Forest Resources and Conservation
• Bachelor of Science in Interdisciplinary Studies | Marine Sciences | CALS
• Bachelor of Science in Wildlife Ecology and Conservation
• Wildlife Ecology and Conservation minor

Critical Tracking

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 at least 1 of 7 critical-tracking courses (excluding labs):
  * 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 at least 2 additional critical-tracking courses, excluding labs
• 2.5 GPA required for all critical-tracking courses
• 2.0 UF GPA required

### Semester 3
• Complete at least 2 additional critical-tracking course, excluding labs
• 2.5 GPA required for all critical-tracking courses
• 2.0 UF GPA required

### Semester 4
• Complete at least 2 additional critical-tracking courses, excluding labs
• 2.5 GPA required for all critical-tracking courses
• 2.0 UF GPA required

### Semester 5
• Complete all critical-tracking courses, including labs
• 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>Semester One</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>IUF 1000</td>
<td>What is the Good Life (Gen Ed Humanities)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Select one:</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CHM 1030</td>
<td>Basic Chemistry Concepts and Applications 1 (Critical Tracking)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>CHM 2045</td>
<td>General Chemistry 1 (Critical Tracking; Gen Ed Biological Sciences and Physical Sciences)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>State Core Gen Ed Composition; Writing Requirement</td>
<td></td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>FOR 2662</td>
<td>Forests for the Future (recommended; Gen Ed Social and Behavioral Sciences and Diversity)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Elective</td>
<td></td>
<td>3</td>
<td></td>
</tr>
<tr>
<td><strong>Credits</strong></td>
<td></td>
<td><strong>15</strong></td>
<td></td>
</tr>
</tbody>
</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; State Core Gen Ed Biological and Physical Sciences)  4
FAS 2024  Global and Regional Perspectives in Fisheries (recommended; or 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 3004  Forests, Conservation and People (recommended; or elective)  3
Gen Ed Composition  3
Elective  2

Semester Four

Select one:  3-4
AEB 2014  Economic Issues, Food and You (Critical Tracking; Gen Ed Social and Behavioral Sciences)
ECO 2013  Principles of Macroeconomics (Critical Tracking; Gen Ed Social and Behavioral Sciences)
ECO 2023  Principles of Microeconomics (Critical Tracking; Gen Ed Social and Behavioral Sciences)
Select one:  3
AEC 3030C  Effective Oral Communication (Critical Tracking)
SPC 2608  Introduction to Public Speaking (Critical Tracking)
PHY 2020  Introduction to Principles of Physics (recommended; Gen Ed Physical Sciences)  3
State Core Gen Ed Humanities  3
Elective  3

Semester Five

Select one:  3-4
FAS 4932  Topics in Fisheries and Aquatic Sciences (summer only)
FNR 3131C  Dendrology/Forest Plants (fall only)
WIS 3402 & 3402L  Wildlife of Florida and Wildlife of Florida Laboratory (spring only)
ZOO 4205C  Invertebrate Biodiversity (spring only)
FNR 3410C  Natural Resource Sampling  3
Select one:  3
FOR 3153C  Forest Ecology
WIS 4934  Topics in Wildlife Ecology and Conservation (Natural Resource Ecology)
Approved course  3

Semester Six

FDR 3202  Society and Natural Resources  3
Approved courses  12

Semester Seven

FNR 4624C  Field Operations for Management of Ecosystems  3
FNR 4660  Natural Resource Policy and Economics  3
Approved courses  9

Semester Eight

FNR 4623C  Integrated Natural Resource Management  3
Approved courses  12

Credits  15

Summer After Semester Four

FOR 3200C  Foundations of Natural Resources and Conservation  3

Semester Five

Select one:  3-4
FAS 4932  Topics in Fisheries and Aquatic Sciences (summer only)
FNR 3131C  Dendrology/Forest Plants (fall only)
WIS 3402 & 3402L  Wildlife of Florida and Wildlife of Florida Laboratory (spring only)
ZOO 4205C  Invertebrate Biodiversity (spring only)
FNR 3410C  Natural Resource Sampling  3
Select one:  3
FOR 3153C  Forest Ecology
WIS 4934  Topics in Wildlife Ecology and Conservation (Natural Resource Ecology)
Approved course  3

Semester Six

FDR 3202  Society and Natural Resources  3
Approved courses  12

Semester Seven

FNR 4624C  Field Operations for Management of Ecosystems  3
FNR 4660  Natural Resource Policy and Economics  3
Approved courses  9

Semester Eight

FNR 4623C  Integrated Natural Resource Management  3
Approved courses  12

Credits  15

Total Credits  120

1 Or higher level course.
2 May substitute ENC 2210 or ENC 3254.
3 FAS 2024 recommended, if not already taken.

The summer term between the junior and senior year is normally reserved for professional work experience.

Academic Learning Compact

The natural resource conservation major provides a broad education in the ecological, economic and social aspects of forest and natural resources and their management. The individualized nature of the major allows students to create a curriculum specific to their interests.

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:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>FNR 3131C</td>
<td>Dendrology/Forest Plants</td>
<td>3</td>
</tr>
<tr>
<td>FNR 3410C</td>
<td>Natural Resource Sampling</td>
<td>3</td>
</tr>
<tr>
<td>FNR 4040C</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>FNR 4623C</td>
<td>Integrated Natural Resource Management</td>
<td>3</td>
</tr>
<tr>
<td>FNR 4660</td>
<td>Natural Resource Policy and Economics</td>
<td>3</td>
</tr>
</tbody>
</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 natural resources.
2. Analyze, interpret, synthesize and communicate information and data, including the use of mathematical and statistical methods.

Critical Thinking

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

$I = Introduced; R = Reinforced; A = Assessed$

<table>
<thead>
<tr>
<th>Courses</th>
<th>SLO 1</th>
<th>SLO 2</th>
<th>SLO 3</th>
<th>SLO 4</th>
</tr>
</thead>
<tbody>
<tr>
<td>FOR 3153C</td>
<td>I</td>
<td>I</td>
<td>R</td>
<td>I</td>
</tr>
<tr>
<td>FOR 3200C</td>
<td>I</td>
<td>I</td>
<td>I</td>
<td>I</td>
</tr>
<tr>
<td>FOR 3202</td>
<td>I</td>
<td></td>
<td>R</td>
<td>R</td>
</tr>
<tr>
<td>FNR 3131C</td>
<td>I</td>
<td></td>
<td></td>
<td>I</td>
</tr>
<tr>
<td>FNR 3410C</td>
<td>I</td>
<td>I</td>
<td></td>
<td></td>
</tr>
<tr>
<td>FNR 4623C</td>
<td>R</td>
<td>R</td>
<td>A</td>
<td>A</td>
</tr>
<tr>
<td>FNR 4624C</td>
<td>R</td>
<td>R</td>
<td></td>
<td></td>
</tr>
<tr>
<td>FNR 4660</td>
<td>I</td>
<td></td>
<td>R</td>
<td>R</td>
</tr>
<tr>
<td>Exit Exam</td>
<td>A</td>
<td>A</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Assessment Types

- Group project
- Presentation
- Final exam