

# Cover Sheet: Request 13489

## Natural Resource Conservation

### Info

Process	Major Curriculum Modify Ugrad/Pro
Status	Pending at PV - University Curriculum Committee (UCC)
Submitter	Scott Sager sasager@ufl.edu
Created	1/8/2019 9:08:04 AM
Updated	2/22/2019 4:19:22 PM
Description of request	<p>Curriculum change.</p> <p>No change to lower-division coursework (beyond update to title of FAS2024... see pending UCC request).</p> <p>Changes to upper-division coursework include...</p> <ul style="list-style-type: none"> <li>- no longer requiring FOR3200C; instead, requiring students complete either FOR3200C or FNR4932 (Professional Practice in Natural Resources)</li> <li>- no longer requiring FOR3153C or WIS3404; instead, requiring students complete FOR3153C, WIS3404, FAS4270, WIS4443, or FAS4932 (Freshwater Ecology)</li> <li>- no longer requiring FNR3410C; instead, requiring students to complete FNR3410C, FAS4932 (Applied Fisheries Statistics), WIS4601, or WIS4945C</li> <li>- no longer requiring FOR3202; instead, requiring students complete FOR3202, FNR4934 (Environment and Society), or FOR4060</li> <li>- no longer requiring FNR4660; instead, requiring students complete either FNR4660 or FOR4621</li> <li>- no longer requiring FNR4624C; instead, requiring students complete FNR4624C, FAS4305C, WIS4427C, FNR4070C, FOR3214+FOR3214L, FOR4664, or FAS4932 (Field Ecology of Aquatic Organisms)</li> <li>- no longer requiring FNR3131C, WIS3402+WIS3402L, or ZOO4205C; instead, requiring students complete FNR3131C, WIS3402+WIS3402L, or FAS4202C</li> <li>- no longer requiring FNR4623C; instead, requiring students complete FNR4623C, FOR4941, FAS4905, FOR4905, or WIS4905</li> <li>- requiring students complete FOR3434C or GIS3072C</li> </ul>

### Actions

Step	Status	Group	User	Comment	Updated
Department	Approved	CALS - Forest Resources and Conservation 514946000	Terrell Baker III		2/4/2019
Natural Resource Conservation University of Florida.pdf					1/8/2019
College	Approved	CALS - College of Agricultural and Life Sciences	Joel H Brendemuhl	Approved by the CALS CC on 2/15/19.	2/22/2019
No document changes					
Associate Provost for Undergraduate Affairs	Approved	PV - Associate Provost for Undergraduate Affairs	Casey Griffith	Please update Current and proposed curriculum sections of form to reflect the exact changes requested in list format.	2/22/2019
No document changes					
University Curriculum Committee	Pending	PV - University Curriculum Committee (UCC)			2/22/2019
No document changes					

Step	Status	Group	User	Comment	Updated
Office of the Registrar					
No document changes					
Student Academic Support System					
No document changes					
Catalog					
No document changes					
Academic Assessment Committee Notified					
No document changes					
College Notified					
No document changes					

# Major|Modify\_Curriculum for request 13489

## Info

**Request:** Natural Resource Conservation

**Description of request:** Curriculum change.

No change to lower-division coursework (beyond update to title of FAS2024... see pending UCC request).

Changes to upper-division coursework include...

- no longer requiring FOR3200C; instead, requiring students complete either FOR3200C or FNR4932 (Professional Practice in Natural Resources)
- no longer requiring FOR3153C or WIS3404; instead, requiring students complete FOR3153C, WIS3404, FAS4270, WIS4443, or FAS4932 (Freshwater Ecology)
- no longer requiring FNR3410C; instead, requiring students to complete FNR3410C, FAS4932 (Applied Fisheries Statistics), WIS4601, or WIS4945C
- no longer requiring FOR3202; instead, requiring students complete FOR3202, FNR4934 (Environment and Society), or FOR4060
- no longer requiring FNR4660; instead, requiring students complete either FNR4660 or FOR4621
- no longer requiring FNR4624C; instead, requiring students complete FNR4624C, FAS4305C, WIS4427C, FNR4070C, FOR3214+FOR3214L, FOR4664, or FAS4932 (Field Ecology of Aquatic Organisms)
- no longer requiring FNR3131C, WIS3402+WIS3402L, or ZOO4205C; instead, requiring students complete FNR3131C, WIS3402+WIS3402L, or FAS4202C
- no longer requiring FNR4623C; instead, requiring students complete FNR4623C, FOR4941, FAS4905, FOR4905, or WIS4905
- requiring students complete FOR3434C or GIS3072C

**Submitter:** Scott Sager sasager@ufl.edu

**Created:** 1/8/2019 8:48:53 AM

**Form version:** 1

## Responses

**Major Name** Natural Resource Conservation

**Major Code** RCN

**Degree Program Name** Bachelor of Science in Forest Resources and Conservation

**Undergraduate Innovation Academy Program** No

**Effective Term** Earliest Available

**Effective Year** Earliest Available

**Current Curriculum for Major** See attached catalog copy.

**Proposed Curriculum Changes** Current major includes eight courses/topical categories, with the remaining credits selected based on consultations between the student and their faculty advisor.

Proposed major expands this to nine topical categories, with the remaining credits based on student/faculty advisor consultations.

**Pedagogical Rationale/Justification** Changes designed to...

- allow a clear curricular path for students interested in freshwater fisheries and human-dimensions of natural resources;
- provide more curricular options for students completing the major at the West Florida Research and Education Center (located near Pensacola);
- address issues with high enrollment in core courses but expanding course options which satisfy requirements; and,
- enhances major's ability to meet demands of both students and prospective employers.

**Impact on Enrollment, Retention, Graduation** Changes will address expanding enrollment by allowing more flexibility in course selection to satisfy categorical requirements.

Retention of students should improve, as the curriculum continues to evolve to better meet student interests, and the interests of prospective employers.

Changes will not impact current students. Curriculum changes will be structured to allow current students to complete the existing program, without impacts to graduation rates.

**Assessment Data Review** All four SLOs for the major were reviewed as part of curriculum revision discussions. Curricular changes are expected to improve outcomes in all areas.

**Academic Learning Compact and Academic Assessment Plan** Program Goal #5 is currently addressed specifically through a presentation made in FNR4623C Integrated Natural Resource Management. Since this course is no longer required, this Goal will need to be revised; however, the courses which satisfy the "Capstone Experience" category will all include a presentation of similar scope, which will allow this Goal to continue to be assessed/evaluated.





# NATURAL RESOURCE CONSERVATION

## MAJOR

[Home](#) / [Undergraduate Catalog](#) / [Colleges and Schools](#)  
/ [Agricultural and Life Sciences, College of](#) / Natural Resource Conservation

The ~~natural-Natural resource-Resource conservation-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.~~ provides students an

~~interdisciplinary curriculum preparing them to address a broad range of natural resource-related issues.~~ The core set of courses provides

~~students with a solid foundation in natural history (floral and faunal), ecology, policy and economics, field applications, quantitative assessment and analysis, human dimensions, and spatial analysis. Working with a faculty advisor, students can elect to focus on a wide range of natural~~

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resource-related courses. In the required capstone experience, students demonstrate their understanding and proficiency in the core skill sets, as well as further develop their area of concentration.

Graduates seek advanced degrees in a variety of fields, or are successfully employed in a wide range of environmental careers. The major is cooperatively offered by faculty in the *School of Forest Resources & Conservation*, the *Department of Wildlife Ecology and Conservation*, and the *Program in Fisheries and Aquatic Sciences*, and students are paired with one of these faculty members to develop a curriculum that suits their needs. Students interested in more structured and/or accredited curricula in professional natural resource management are encouraged to look at majors in *Forest Resources and Conservation*, *Wildlife Ecology and Conservation*, or *Interdisciplinary Studies-Marine Sciences*.

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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](#)

**Related Natural Resource Conservation Programs**

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

Overview

Critical Tracking

Model Semester Plan

Academic Learning Compact

All NRC majors are required to complete ~~eight core~~work in nine content areas courses (minimum ~~24-25~~ credits): professional seminar, ecology, quantitative analysis and assessment, natural history, human dimensions, policy and economics, field applications, spatial analysis, and capstone experience. ~~that span and integrate across forest, wildlife, fisheries, and aquatic resources, including bio-physical and socio-economic domains.~~ These courses embrace a variety of 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 ~~36-35~~ 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~~conservation curriculum.

## RELATED NATURAL RESOURCE CONSERVATION PROGRAMS

- [Combined Degree](#)

Natural Resource Conservation < University of Florida

[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 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

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.*

Semester One		Credits
<a href="#">IUF 1000</a>	What is the Good Life (Gen Ed Humanities)	3
Select one:		3
<a href="#">CHM 1030</a>	Basic Chemistry Concepts and Applications 1 ( <b>Critical Tracking</b> )	
<a href="#">CHM 2045</a>	General Chemistry 1 ( <b>Critical Tracking</b> ; Gen Ed Biological Sciences and Physical Sciences)	
<a href="#">State Core Gen Ed Composition</a> ; Writing Requirement		3
<a href="#">FOR 2662</a>	Forests for the Future (recommended; Gen Ed Social and Behavioral Sciences and Diversity)	3
Elective		3
<b>Credits</b>		<b>15</b>
Semester Two		
<a href="#">MAC 1105</a>	Basic College Algebra ( <b>Critical Tracking</b> ; State Core Gen Ed Mathematics) <sup>1</sup>	3
<a href="#">BSC 2010</a> & <a href="#">2010L</a>	Integrated Principles of Biology 1 and Integrated Principles of Biology Laboratory 1 ( <b>Critical Tracking</b> ; State Core Gen Ed Biological and Physical Sciences)	4



<a href="#">FAS 2024</a>	Global and Regional Perspectives in Fisheries (recommended; or elective)	3
<a href="#">State Core Gen Ed Social and Behavioral Sciences</a>		3
Elective		3
<b>Credits</b>		<b>16</b>
<b>Semester Three</b>		
<a href="#">AEC 3033C</a>	Research and Business Writing in Agricultural and Life Sciences ( <b>Critical Tracking</b> ; Writing Requirement) <sup>2</sup>	3
<a href="#">STA 2023</a>	Introduction to Statistics 1 ( <b>Critical Tracking</b> ; Gen Ed Mathematics)	3
<a href="#">FOR 3004</a>	Forests, Conservation and People (recommended; or elective)	3
Gen Ed Composition		3
Elective		2
<b>Credits</b>		<b>14</b>
<b>Semester Four</b>		
Select one:		3-4
<a href="#">AEB 2014</a>	Economic Issues, Food and You ( <b>Critical Tracking</b> ; Gen Ed Social and Behavioral Sciences)	
<a href="#">ECO 2013</a>	Principles of Macroeconomics ( <b>Critical Tracking</b> ; Gen Ed Social and Behavioral Sciences)	
<a href="#">ECO 2023</a>	Principles of Microeconomics ( <b>Critical Tracking</b> ; Gen Ed Social and Behavioral Sciences)	
Select one:		3
<a href="#">AEC 3030C</a>	Effective Oral Communication ( <b>Critical Tracking</b> )	
<a href="#">SPC 2608</a>	Introduction to Public Speaking ( <b>Critical Tracking</b> )	
<a href="#">PHY 2020</a>	Introduction to Principles of Physics (recommended; Gen Ed Physical Sciences)	3
<a href="#">State Core Gen Ed Humanities</a>		3

Elective <sup>3</sup>		3
<b>Credits</b>		<b>15-16</b>
<b>Summer After Semester Four</b>		
Summer B		
<u>Select one:</u>		
<u>FOR 3200C</u>	Foundations of Natural Resources and Conservation	<del>3</del> 1
<u>FNR 4932</u>	<u>Topics in Forest Resources and Conservation (Professional Practice in Natural Resources)</u>	1
<b>Credits</b>		<b><del>3</del>1</b>
<b>Semester Five</b>		
Select one:		3-4
<del>FAS 4932</del> <u>FAS 4202C</u>	<del>Topics in Fisheries and Aquatic Sciences (summer only)</del> <u>Biology of Fishes</u>	
<u>FNR 3131C</u>	Dendrology/Forest Plants (fall only)	
<u>WIS 3402</u> & <u>3402L</u>	Wildlife of Florida and Wildlife of Florida Laboratory (spring only)	
<u>ZOO 4205G</u>	<del>Invertebrate Biodiversity (spring only)</del>	
<u>Select one:</u>		<u>3</u>
<u>FNR 3410C</u>	Natural Resource Sampling	3
<u>FAS 4932</u>	<u>Topics in Fisheries and Aquatic Sciences (Applied Fisheries Statistics)</u>	
<u>WIS 4601</u>	<u>Quantitative Wildlife Ecology</u>	
<u>WIS 4945C</u>	<u>Wildlife Techniques</u>	
Select one:		<u>3-4</u>
<u>FOR 3153C</u>	Forest Ecology	
<del>WIS 4934</del> <u>WIS 3404</u>	<del>Topics in Wildlife Ecology and Conservation (Natural Resource Ecology)</del>	
<u>FAS 4270</u>	<u>Marine Ecological Processes</u>	



<a href="#">FAS 4932</a>	<a href="#">Topics in Fisheries and Aquatic Sciences (Freshwater Ecology)</a>	
<a href="#">WIS 4443</a>	<a href="#">Wetland Ecology</a>	
<a href="#">Select one:</a>		<u>3</u>
<a href="#">FOR 3434C</a>	<a href="#">Forest Resource Information Systems</a>	
<a href="#">GIS 3072C</a>	<a href="#">Geographic Information Systems</a>	
Approved course		<del>3</del> <u>2</u>
<b>Credits</b>		<del>4</del> <u>14</u> <del>13</del> <u>15</u>
<b>Semester Six</b>		
<a href="#">Select one:</a>		<u>3</u>
<a href="#">FOR 3202</a>	Society and Natural Resources	<u>3</u>
<a href="#">FNR 4932</a>	<a href="#">Topics in Forest Resources and Conservation (Environment and Society)</a>	
<a href="#">FOR 4060</a>	<a href="#">Global Forests and Society</a>	
Approved courses		<u>12</u>
<b>Credits</b>		<b>15</b>
<b>Semester Seven</b>		

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<u>Select one:</u>		<u>3</u>
<u>FNR 4624C</u>	Field Operations for Management of Ecosystems	<u>3</u>
<u>FAS 4305C</u>	<u>Intro to Fisheries Science</u>	
<u>WIS 4427C</u>	<u>Wildlife Habitat Management</u>	
<u>FNR 4070C</u>	<u>Environmental Education Program Development</u>	
<u>FOR 3214 &amp; 3214L</u>	<u>Fire Ecology and Management and Fire Ecology and Management Lab</u>	
<u>FOR 4664</u>	<u>Sustainable Ecotourism Development</u>	
<u>FAS 4932</u>	<u>Topics in Fisheries and Aquatic Sciences (Field Ecology of Aquatic Organisms)</u>	
<u>Select one:</u>		<u>3</u>
<u>FNR 4660</u>	Natural Resource Policy and Economics	<u>3</u>
<u>FOR 4621</u>	<u>Forest Economics and Management</u>	
Approved courses		9
<b>Credits</b>		<b>15</b>
<b>Semester Eight</b>		
<u>Select one:</u>		<u>3</u>
<u>FNR 4932 &amp; FNR 4623C</u>	<u>Topics in Forest Resources and Conservation (Integrated Natural Resource Management and Analysis) and Integrated Management and Planning</u>	<u>3</u>
<u>FOR 4941</u>	<u>Internship in Natural Resources</u>	
<u>FAS 4905</u>	<u>Independent Study</u>	
<u>FOR 4905</u>	<u>Independent Study</u>	
<u>WIS 4905</u>	<u>Independent Study</u>	
Approved courses		12
<b>Credits</b>		<b>15</b>
<b>Total Credits</b>		<b>120</b>

<sup>1</sup> Or higher level course.

<sup>2</sup> May substitute [ENC 2210](#) or [ENC 3254](#).

<sup>3</sup> [FAS 2024](#) recommended, if not already taken.

Given the flexible, advisor/student-driven nature of this major, individual students may substantially deviate from this curriculum plan. As part of their curriculum plan, students are required to complete at least one course from the following nine content areas:

Professional Seminar

- [FOR 3200C Foundations in Natural Resources and Conservation](#)
- [FNR 4932 Topics in Forest Resources and Conservation \(Professional Practice in Natural Resources\)](#)

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Ecology

- [FOR 3153C Forest Ecology](#)
- [WIS 3404 Natural Resource Ecology](#)
- [FAS 4270 Marine Ecological Processes](#)
- [FAS 4932 Topics in Fisheries and Aquatic Sciences \(Freshwater Ecology\)](#)
- [WIS 4443 Wetland Ecology](#)

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Quantitative Analysis and Assessment

- [FNR 3410C Natural Resource Sampling](#)
- [FAS 4932 Topics in Fisheries and Aquatic Sciences \(Applied Fisheries Statistics\)](#)
- [WIS 4601 Quantitative Wildlife Ecology](#)
- [WIS4935C Wildlife Techniques](#)

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Natural History

- [FNR 3131C Dendrology/Forest Plants](#)
- [WIS3402/L Wildlife of Florida + Wildlife of Florida Lab](#)
- [FAS 4202C Biology of Fishes](#)

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Human Dimensions

- [FOR 3202 Society and Natural Resources](#)
- [FNR4932 Environment and Society](#)
- [FOR 4060 Global Forests and Society](#)

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Policy and Economics

- [FNR 4660 Natural Resource Policy/Economics](#)
- [FOR 4621 Forest Economics and Management](#)

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Field Applications

- [FAS 4305C Intro to Fisheries Science](#)
- [FNR 4624C Field Operations for Management of Ecosystems](#)
- [WIS 4427C Wildlife Habitat Management](#)
- [FNR 4070C Environmental Education Program Development](#)
- [FOR3214/L Fire Ecology and Management + Fire Ecology and Management Lab](#)

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- FOR 4664 Sustainable Ecotourism Development
- FAS4932 Topics in Fisheries and Aquatic Sciences (Field Ecology of Aquatic Organisms)

Spatial Analysis

- FOR 3434C Forest Resource Information Systems
- GIS 3072C Geographic Information Systems

Capstone Experience

- FNR 4932 Topics in Forest Resources and Conservation (Integrated Management and Assessment) + FNR 4623C Integrated Management and Planning
- FOR 4941 Internship in Natural Resources
- FAS 4905 Independent Study
- FOR 4905 Independent Study
- WIS 4905 Independent Study

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

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:

<u>FNR 3131C</u>	<u>Dendrology/Forest Plants</u>	<u>3</u>
<u>FNR 3410C</u>	<u>Natural Resource Sampling</u>	<u>3</u>
<u>FNR 4040C</u>		
<u>FNR 4623C</u>	<u>Integrated Natural Resource Management</u>	<u>3</u>

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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 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 natural resource management.

#### Communication

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

### Curriculum Map

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

<b><u>Courses/Content Areas</u></b>	<b>SLO 1</b>	<b>SLO 2</b>	<b>SLO 3</b>	<b>SLO 4</b>
<del>FNR 3153C</del> <u>Professional Seminar</u>	I	I	R	I
<del>FNR 3200C</del> <u>Ecology</u>	I	I	I	I
<del>FNR 3202</del> <u>Quantitative Assessment and Analysis</u>	I	I	R	R
<del>FNR 3134C</del> <u>Natural History</u>	I			I
<del>FNR 3410C</del> <u>Human Dimensions</u>	R	R	R	R



<a href="#">FNR 4623C Policy and Economics</a>	R	R		<u>AR</u>	<u>AR</u>
<a href="#">FNR 4624C Field Applications</a>	R	R	<u>R</u>		<u>R</u>
<a href="#">FNR 4660 Capstone Experience</a>	<u>RA</u>	<u>A</u>		<u>RA</u>	<u>AR</u>
<a href="#">Spatial Analysis</a>	<u>I</u>	<u>I</u>			<u>I</u>

Exit Exam — A — A

## ASSESSMENT TYPES

- Group project
- Presentation
- Final exam

UF Signature



Office of the University Registrar  
1478 Union Road  
222 Criser Hall - P.O. Box 114000  
Gainesville, FL 32611-4000  
Phone: 352-392-1374; Fax: 352-846-1126  
Hours: 8 a.m. - 5 p.m., M-F

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