

New SLO/Academic Assessment Plan Submission Form

Check one:

- New Certificate Academic Assessment Plan
- New Undergraduate Academic Assessment Plan
 - New Graduate Academic Assessment Plan
- New Professional Academic Assessment Plan
- New Student Learning Outcome (SLO)

Major: CEG - ECR

College: AG

Effective term and year of implementation: Term: Spring Year:2015

IMPORTANT: If you are submitting an **Academic Assessment Plan**, please enter your plan into Compliance Assist, and then submit this form to the approvals submission site. Once we receive this form, we will download the plan for committee review. You do not need to restate the SLOs on this form because the SLOs are in the Plan. Instead, skip items 1-5 and go directly to items 7 and 8, the Department and College Contact Sections.

If you are submitting one or more new **Student Learning Outcomes (SLOs)**, please complete items 1 through 6.

1. Include the new SLO here:

 Indicate the areas of the SLOs: Undergraduate: Content 	Critical T	Thinking 🗌 Communication
Graduate: Knowledge	Skills	Professional Behavior
3. What types of assessments will be u	sed?	
Course-related Exam		Capstone
Final Paper/Project/Presenta	ation	Course Grades
Course Assessments/Assigr	nments	Standardized Exam
Other – please describe here	9	
4. What assessment methods will be us	sed?	
RubricSingle Faculty Member		



5. Who applies the method?

Faculty Committee

Single Faculty Member

6. Describe the individual student assessments and the assessment method that will be used to measure each SLO.

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School of Forest Resources & Conservation

Ecological Restoration Graduate Certificate

Mission Alignment

The SFRC is part of the University of Florida's Institute of Food and Agricultural Sciences with four missions: undergraduate education, graduate education, research and extension. Our programs provide: (1) a rich personal educational experience for students; (2) new discoveries and applications that enrich lives, communities and natural resources; and (3) lifelong learning opportunities for professionals, policy makers, landowners, youth and the general public. The Graduate Certificate in Ecological Restoration aims to provide this learning, training students and working professionals on restoration ecology, natural areas management, environmental consulting, fire and wildlife ecology, watershed management, and/or mine rehabilitation. This program directly supports and enhances our mission through providing education to individuals who might otherwise be unable to attend the University of Florida.

Student Learning Outcomes

At the conclusion of the Certificate program courses, students will be able to:

1) Apply theoretical and technical knowledge of ecology, soils, and related biophysical sciences in order to plan real-world restoration projects.

2) Analyze and synthesize relevant primary information sources, such as technical reports and scientific publications.

3) Describe various techniques used in ecological restoration, monitoring, and evaluation.

4) Assess implications of socio-economic, ethical, legal, and political dimensions of ecological restoration.

Program Goals

Seventy percent of students assessed are expected to be considered "successful" (as determined through specific assessment methods described below) within each distinct outcome.

Assessment Timeline

Direct assessment of the Student Learning Outcomes is conducted in the single required course (FOR5157, Ecological Restoration Principles & Practices) for the Ecological Restoration Graduate Certificate. This course is suggested as the introductory course for the Graduate Certificate but is not mandated as such; thus, not all direct assessment will happen at the start of the program. Some students may be introduced to various SLOs prior to attending FOR5157.

While the outcomes are reinforced in all possible elective courses and across multiple assignments, the decision to assess a single comprehensive project for all outcomes was justified through the use of a grade-independent scoring rubric provided under *Methods and Procedures*.

SLO	Introduced	Reinforced	Assessed
1	FOR5157	FNR6628	FOR5157
		FOR6934, Invaded Ecosystems	
		HOS6932, Plant Materials	
2	FOR5157	FOR5159	FOR5157
		FOR6934, Policy & Economics	
3	FOR5157	FNR6628	FOR5157
		FOR6934, Invaded Ecosystems	
		HOS6932, Plant Materials	
4	FOR5157	FNR6628	FOR5157
		FOR6934, Policy & Economics	

Indirect assessment as described below will be conducted during the final term of the student's pursuit of the Graduate Certificate.

Assessment Cycle

All Student Learning Outcomes are assessed for students in the program during every offering of the FOR5157 course, annually in Fall semesters.

Assessment:	November-December – direct assessment	
	Indirect assessment varies by student (final term)	
Analysis and Interpretation:	January-February	
Improvement Plans:	February	
Reporting:	September	

Methods & Procedures

Student Learning Outcomes are assessed using the Extension Presentation assignment within the required course: FOR5157, Ecological Restoration Principles & Practices.

Assignment description:

Students will design and deliver a 10 minute Extension Presentation using MS Powerpoint and narration. The presentation will be produced with ecological restoration practitioners as the target extension audience. Student presentations will be uploaded and shared with classmates, and provide course content for Week 15.

Objective

There are two objectives to this assignment: 1) to teach peers about a selected topic in an engaging and thought-provoking manner by producing an Extension presentation, and 2) to demonstrate the ability to synthesize literature (describe principles) and apply lessons learned to ecological restoration (determine practice).

Required components of the presentation

Introduction: Set the stage for your presentation and your topic. Introduce yourself and explain why you chose your topic. Justify your topic and convince your audience why this is an important area of research and information.

Synthesis: Provide a review of the pertinent research on your topic and how it applies to the field of ecological restoration.

Conclusions: Distill the research into a few "take home messages" that will help ecological restoration practitioners be well-informed regarding the topic. Whenever appropriate, include recommendations for restoration actions that can be supported by your synthesis of research. While drawing from personal experience will enhance your presentation, it is important that the focus of your presentation and your conclusions be the scientific literature.

References: To demonstrate mastery of the scientific literature regarding your topic, you must cite at least 5 journal articles (excluding required readings from this course) in your presentation. Include your list of references as your last slide (no need to provide extensive narration for this slide).

The assignment will be graded as usual using an instructor-designed rubric for course grading purposes. For SLO assessment, the following rubric will be used:

Outcome	Criteria	2 Points	1 Point	0 Points
1	Displays theoretical	Substantive and	Relevant content	Content is not
	knowledge of restoration	factual	may include non-	relevant to
	principles.	information is used throughout the	related ideas.	restoration principles.
		project.		1 1
2	Utilizes relevant	Relevant evidence	Includes only one	No reference
	literature sources in a	from literature	primary source	made to current
	meaningful way.	references support	with minimal	research
		project plan.	citations.	literature.
3	Describes techniques	Several restoration	Minimal	Techniques are
	used in restoration	techniques are	description	not described or
	projects.	described, including	addresses less	not included.
		monitoring and	than two	
		evaluation.	restoration	
			techniques.	
4	Describes various	Multiple dimensions	Discussion of	No discussion of
	implications of	of implications are	implications is	implications is
	restoration/conservation	addressed and	incomplete or	included.
	project implementation.	explored.	includes only one	
			dimension.	

Scores of "2" are considered successful and for program evaluation purposes, 70% of students assessed are expected to be successful within each distinct outcome.

In addition to this direct assessment, students will be given a self-reflective survey to indirectly assess their perceptions of learning and confidence relative to intended outcomes. This assessment is triggered by the individual application to receive the Graduate Certificate at the end of the program. The surveys will be administered through Qualtrics with the option of anonymity and collected by Sandra Houder.

Data obtained through both direct and indirect assessments will be compiled and reviewed by the online programs office, Distance Education Committee, and Graduate Programs Committee in the School of Forest Resources & Conservation. Weaknesses identified and/or changes needed will be implemented directly and promptly via these groups.

Assessment Oversight

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	Affiliation		

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