

SLO/Academic Assessment Plan Revision Form

Check one:

- Certificate Academic Assessment Plan
- Undergraduate Academic Assessment Plan
- Graduate Academic Assessment Plan
- Professional Academic Assessment Plan
- Academic Learning Compact (ALC)
- Student Learning Outcomes (SLO)

Major:

College:

Effective term and year revisions will take place: Term: Spring

Year:2015

Revisions requested (check all that apply)

Academic Assessment Plans

ALCs

SLOs

- Rationale
- Mission Alignment
- Curriculum Map
- Assessment Timeline
- Assessment Cycle
- Methods and Procedures
- Assessment Oversight
- Research
- Measurement Tools

- Description of major
- Graduation Requirements

- SLO
- Assessment Measures

Briefly describe the revision(s) including the revised language and provide the rationale/justification for the revision. Templates are available for the curriculum map, assessment timeline, and assessment cycle on the [Institutional Assessment website](#). Please see attached GMT_AAP

If revising an **Academic Assessment Plan**, please enter the changes in Compliance Assist and indicate these changes by selecting the appropriate boxes above. Once we receive this approval form, Institutional Assessment will pull your revised plan from Compliance Assist.

If revising an **Academic Learning Compact (ALC)**, please attach both the current ALC and the new revised version.

If revising one or more **Student Learning Outcomes (SLOs)**, please complete the following for each SLO:

1. What types of assessments are or will be used?

- Course-related Exam
- Final Paper/Project/Presentation
- Course Assessments/Assignments
- Other – please describe here Reflective self-assessment
- Capstone
- Course Grades
- Standardized Exam

2. What assessment methods will be used?

- Rubric
- Exam
- Other – please describe here Median grades for specific in-course assignments (that align with each SLO) which are graded by the instructor.

3. Who applies the method?

- Faculty Committee
- Single Faculty Member

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

Please see attached GMT_AAP

Department Contact

Name:

Telephone Number:

E-mail Address:

PO Box:

College Contact

Name:

Telephone Number:

E-mail Address:

PO Box:

School of Forest Resources & Conservation

Geomatics Undergraduate 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 Undergraduate Certificate in Geomatics aims to provide preparation in surveying and mapping for individuals seeking licensure as professional surveyors and mappers (PSM). 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 mathematics, science, and applied sciences to identify and solve surveying, mapping, and Geomatics-related problems.
- 2) Analyze and interpret surveying/mapping/geospatial-related data.
- 3) Utilize techniques, skills, and tools necessary for professional practice of surveying and mapping.
- 4) Apply knowledge of contemporary Geomatics issues to real-world practice.

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 two required courses for the Geomatics Undergraduate Certificate.

SLO	Assessed Spring	Assessed Fall
1	SUR3103C (Lab 7, HW 1)	SUR3103C (Lab 7, HW 1) SUR3641 (Assignments 1-9)
2	SUR3103C (Lab 1, HW 1)	SUR3103C (Lab 1, HW 1)

		SUR3641 (Assignments 1-9)
3	SUR3103C (Lab 12, HW 3)	SUR3103C (Lab 12, HW 3) SUR3641 (Assignments 5-7)
4	SUR3103C (Lab 12, HW 3)	SUR3103C (Lab 12, HW 3) SUR3641 (Assignments 5-7)

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

Assessment Cycle

Student Learning Outcomes are assessed for students in the program during every offering of SUR3103C Geomatics (Fall & Spring) and SUR3641 Survey Computations (Fall), both offered annually.

Assessment:	Direct assessments in Fall & Spring semesters 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 specific Lab and Homework Assignments in SUR3103C Geomatics and specific Assignments in SUR3641 Survey Computations.

Assignment descriptions:

SUR3103C, Lab 7 & 12, Homework 1 & 3

Lab 7: Traverse Adjustment; Lab 12: Map Drafting; HW 1: Solving problems at the end of textbook chapters; HW 3: Solving problems at the end of textbook chapters

SUR3641 Survey Computations

Assignment 1: Intro & Excel; Assignment 2: Trig & Geometry; Assignment 3: Coord Computations; Assignment 4: Coordinate Computations, continued; Assignment 5: Point Positioning; Assignment 6: Land Partitioning, Part 1; Assignment 7: Land Partitioning, Part 2; Assignment 8: Partial Derivatives; Assignment 9: Matrix Algebra and Coordinate Transformation

Student Learning Outcomes are assessed within courses using a combination of assignment grades specific to each outcome. For each student, median grades on the specified assignment will be used to determine successful completion of SLOs. Scores of 80% or better are considered "successful" and for program evaluation purposes, 70% of students are expected to fall into the "successful" category.

In addition to these direct assessments, 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 Undergraduate 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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Rhiannon Pollard, Manager, Online Programs	SFRC	rhiannon-pollard@ufl.edu	273.0184
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