UF UNIVERSITY of FLORIDA

SLO/Academic Assessment Plan Revision Form

Check one:

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

Major: Electrical Engineering

College: College of Engineering

Effective term and year revisions will take place: Term: Fall Year: 2015

Revisions requested (check all that apply)

Academic Assessment Plans	**ALCs**	**SLOs**
☐ Rationale	☐ Description of major	☐ SLO
☐ Mission Alignment	☐ Graduation Requirements	☐ Assessment Measures
x Curriculum Map		
☐ Assessment Timeline		
☐ Assessment Cycle		
☐ Methods and Procedures		
☐ Assessment Oversight		
☐ Research		
☐ Measurement Tools		

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. The BSEE degree program has changed. The separate labs have been incorporated into the corresponding lecture course numbers, i.e. EEL 4514/EEL 4514L became EEL 4514C. Other courses have added a lab. The map has these changes.

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
- ☐ Capstone
- ☐ Final Paper/Project/Presentation
- ☐ Course Grades
- ☐ Course Assessments/Assignments
- ☐ Standardized Exam
- ☐ Other – please describe here

2. What assessment methods will be used?

- ☐ Rubric
- ☐ Exam
- ☐ Other – please describe here

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.

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Academic Learning Compact: Electrical Engineering

Electrical engineering emphasizes development of the transmission and utilization of electric energy and intelligence. Electrical engineers design products and systems that meet the needs of today and tomorrow's electrical and electronic systems. You will be able to design communication systems; design the electronic components that run computers, motor vehicles, TVs, stereo systems and robots for automated factories; design aircraft and spacecraft control systems; design utility and industrial power systems; and design biological and biomedical systems.

This program is accredited by the Engineering Accreditation Commission of ABET.

Additional information is available from the description of this major.

Before Graduating You Must

- Pass an assessment of performance on a major design experience. Assessment will be provided by two or more faculty and/or industry practitioners.
- Pass assessment in two courses of individual assignments targeted to each learning outcome. Assessment will be provided by the instructor of the course according to department standards.
- Complete an exit interview in your final semester.
- Complete requirements for the baccalaureate degree, as determined by faculty.

Skills You Will Acquire in the Major (SLOs)

1. Understand probability and statistics, including applications.
2. Understand the mathematics, basic and engineering sciences necessary to analyze and design complex systems.
3. Understand advanced mathematics including linear algebra, complex variables and discrete mathematics.
4. Apply knowledge of mathematics, science and engineering.
5. Design and conduct experiments, as well as analyzing and interpreting the data.
6. Design a system, component or process to meet desired needs.
7. Function on multi-disciplinary teams.
8. Identify, formulate and solve engineering problems.
9. Understand professional and ethical responsibilities.
10. Communicate effectively.
11. Achieve the broad education necessary to understand the impact of engineering solutions in global and societal contexts.
12. Assess the need for and an ability to engage in life-long learning.
13. Achieve knowledge of contemporary issues that impact the field of electrical engineering.
14. Use the techniques, skills and modern engineering tools necessary for engineering practice.

Table Key: I = Introduced; R = Reinforced; A = Assessed

Courses	Content			Critical Thinking						Communication					
	SLO 1	SLO 2	SLO 3	SLO 4	SLO 5	SLO 6	SLO 7	SLO 8	SLO 9	SLO 10	SLO 11	SLO 12	SLO 13	SLO 14	
EGN 1935						I	I	I							
EEL 2000								I	I	I	I	I			
EEL 2401L		R			R			R							R
EEL 3105		I, A	I, A	I, A				I							
EEL 3111C		A	I	A	I			R							I, A
EEL 3112		I	I	I				R							I
EEL 3135		R	A	A				R							A
EEL 3211		R		I				R							I
EEE 3308	I	A		R	A	I, A		R		R		R			I
EEE 3396	I	R		R		R		R							R
EEL 3472		R		A				R							R
EEL 3473		R	R	R				R							R
EEL 3701C		R			A	A		R		R					R
EEL 3923		A			R	R		R	R	R					
EEL 4242C		R		R	R			R							R
EEE 4306		R		R	R	R		R							R
EEE 4310		R		R		R		R				R			R
EEE 4329		R		R		R		R				R			R
EEE 4331		R		R				R							R

EEL 4351		R		R				R						R
EEE 4373		R		R				R						R
EEE 4420		R						R				R		R
EEL 4440		R			R			R						R
EEL 4445		R			R			R						R
EEL 4461		R			R			R						R
EEL 4514	A	R	R	R	R	R		R			R	R	R	R
EEL 4514L	R	R	R	R	R	R		R		R	R	R		R
EEL 4516	R	R	R	R	R	R		R			R	R	R	R
EEL 4610		R	R	R		R								R
EEL 4657		R	R	R		R		R						R
EEL 4657L		R	R	R	R			R						R
EEL 4712C		R		R		R		R						R
EEL 4703C		R		R		R		R						R
EEL 4744C		R		R		R		R		R				R
EEL 4750C		R		R				R						R
EEL 4834		R		R				R						R
EEL 4912		A		R	R	A	A	A	A	A	A	A	A	A
EEE 4924		A		R	A	A	A	A	A	A	A	A	A	A

Assessment Types:
Classroom-format classes: assessment is by means of a focused question on assignments or exams. Laboratory-format classes: assessment is by evaluation of a lab report or quiz.
Assessments also include design and programming projects, data analysis, team work, reports and presentations.

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