

2017-2018 Assessment Cycle (College of Engineering) ENGR_Systems Technology MS

Mission

Welcome to the "Mission" tab. First, review the University's Mission, Values, and Vision statements provided below. Then, in the section labeled "Department / Program Mission", type in the current mission for your department, program, or unit. Click "Save" when you are finished.

University Mission

The University of Louisiana at Lafayette offers an exceptional education informed by diverse worldviews grounded in tradition, heritage, and culture. We develop leaders and innovators who advance knowledge, cultivate aesthetic sensibility, and improve the human condition.

University Values

We strive to create a community of leaders and innovators in an environment that fosters a desire to advance and disseminate knowledge. We support the mission of the university by actualizing our core values of equity, integrity, intellectual curiosity, creativity, tradition, transparency, respect, collaboration, pluralism, and sustainability.

University Vision

We strive to be included in the top 25% of our peer institutions by 2020, improving our national and international status and recognition.

Program Mission

Program Mission

If applicable, provide the program's mission in the space provided. If none exists, write "None Available in 2016-2017".

The M.S. in Systems Technology degree program promotes excellence in graduate education, research, scholarly pursuits, and community service by imparting advanced knowledge of the discipline and related research skills. The theoretical knowledge and research skills obtained in this program prepare students for scholarly endeavors, which will develop knowledge within the discipline. The Systems Technology program is designed to equip students with the knowledge, skills and cutting-edge tools to develop solutions to complex systems problems in a diversity of industries.

Goals (University/Program tied to Curriculum)

Standards/Outcomes

Identifier	Description
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ABET-EAC.1.3	CRITERION: Program Outcomes and Assessment Although institutions may use different terminology, for purposes of Criterion 3, program outcomes are intended to be statements that describe what students are expected to know or be able to do by the time of graduation from the program.
ABET-EAC.1.3.1	> an ability to apply knowledge of mathematics, science, and engineering
ABET-EAC.1.3.10	> a knowledge of contemporary issues
ABET-EAC.1.3.11	> an ability to use the techniques, skills, and modern engineering tools necessary for engineering practice.
ABET-EAC.1.3.12	Each program must have an assessment process with documented results. Evidence must be given that the results are applied to the further development and improvement of the program. The assessment process must demonstrate that the outcomes of the program, including those listed above, are being measured.
ABET-EAC.1.3.2	> an ability to design and conduct experiments, as well as to analyze and interpret data
ABET-EAC.1.3.3	> an ability to design a system, component, or process to meet desired needs
ABET-EAC.1.3.4	> an ability to function on multi-disciplinary teams
ABET-EAC.1.3.5	> an ability to identify, formulate, and solve engineering problems
ABET-EAC.1.3.6	> an understanding of professional and ethical responsibility
ABET-EAC.1.3.7	> an ability to communicate effectively
ABET-EAC.1.3.8	> the broad education necessary to understand the impact of engineering solutions in a global and societal context
ABET-EAC.1.3.9	> a recognition of the need for, and an ability to engage in life-long learning

Additional Standards/Outcomes

Identifier	Description
STEC.1	Explain the conceptual and theoretical framework of thesis or project within Systems Technology.
STEC.2	Demonstrate specialized knowledge and current trends in an area of Systems Technology.
STEC.3	Demonstrate competence in solving practical problems in Systems Technology.

STEC.4	Demonstrate advanced reading, research, oral and written communication skills through a rigorous research approach.
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Curriculum Map

Assessment Findings for the Assessment Measure level for MS Systems Technology(Imported)

Legend	A - Assessed				
Course/Event	Oral Defense				
Standard/Outcome	STEC.1 Explain the conceptual and theoretical framework of thesis or project within Systems Technology.				
Assessment Measures	Assessment Measure	Criterion	Summary	Attachments of the Assessments	Improvement Narratives
	Direct - Presentation	Has the criterion A committee is present for the oral defense of the student's project or thesis. The committee evaluates the student's depth and breadth of knowledge, their ability to solve practical problems and conduct rigorous research. The average score for all students will be 3.0 or higher on a 5.0 scale. been met yet? Met	During this cycle, eight students completed their oral defense of their thesis or project. The average score for the eight students on their depth and breadth of knowledge and their ability to solve practical problems as well as research in the field of systems technology is 4.1.		

Legend	A - Assessed				
Course/Event	Oral Defense				
Standard/Outcome	STEC.2 Demonstrate specialized knowledge and current trends in an area of Systems Technology.				
Assessment Measures	Assessment	Criterion	Summary	Attachments of	Improvement

	Measure		the Assessments	Narratives
	Direct - Presentation	Has the criterion A committee is present for the oral defense of the student's project or thesis. The committee evaluates the student's depth and breadth of knowledge of current trends in systems technology. The average score for all students will be 3.0 or higher on a 5.0 scale. been met yet? Met	During this cycle, eight students completed their oral defense of their thesis or project. The average score for the eight students on their depth and breadth of knowledge of current trends in Systems Technology is 4.2.	

Legend	A - Assessed				
Course/Event	Oral Defense				
Standard/Outcome	STEC.3 Demonstrate competence in solving practical problems in Systems Technology.				
Assessment Measures					
	Assessment Measure	Criterion	Summary	Attachments of the Assessments	Improvement Narratives
	Direct - Presentation	Has the criterion A committee is present for the oral defense of the student's project or thesis. The committee evaluates the student's ability to solve practical problems in systems technology. The average score for all students will be 3.0 or higher on a 5.0 scale. been met yet? Met	During this cycle, eight students completed their oral defense of their thesis or project. The average score for the eight students on their ability to demonstrate competence in solving practical problems in the field of systems technology is 4.5.		

Legend	A - Assessed				
Course/Event	Oral Defense				
Standard/Outcome	STEC.4 Demonstrate advanced reading, research, oral and written communication skills through a rigorous research approach.				
Assessment Measures	Assessment Measure	Criterion	Summary	Attachments of the Assessments	Improvement Narratives
	Direct - Presentation	Has the criterion A committee is present for the oral defense of the student's project or thesis. The committee evaluates the student's abilities in advanced reading, research and oral and written communication skills. The average score for all students will be 3.0 or higher on a 5.0 scale. been met yet? Met	During this cycle, eight students completed their oral defense of their thesis or project. The average score for the eight students on their abilities in advanced reading, research and oral and written communications skills is 4.0.		- Professional development/training: We will strongly encourage students to attend workshops and presentations on giving technical presentations. These workshops and presentations are sponsored each semester by the UL Lafayette Graduate School.

Legend	A - Assessed				
Course/Event	Thesis / Report Document (Evaluation)				
Standard/Outcome	STEC.2 Demonstrate specialized knowledge and current trends in an area of Systems Technology.				
Assessment Measures	Assessment Measure	Criterion	Summary	Attachments of the Assessments	Improvements Narratives
	Direct - Direct - Thesis or Project (Other)	Has the criterion A committee evaluates the student's project or thesis. In the case of a thesis option, scoring is by major advisor. In the case of a project, scoring is by rubric to evaluate	During this cycle, eight students completed their thesis or project. The average score for the five students on their		

		the student's depth and breadth of knowledge in current trends in systems technology. The average score for all students will be 3.0 or higher on a 5.0 scale. been met yet? Met	depth and breadth of knowledge of current trends in Systems Technology is 4.6.		
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Legend	A - Assessed				
Course/Event	Thesis / Report Document (Evaluation)				
Standard/Outcome	STEC.3 Demonstrate competence in solving practical problems in Systems Technology.				
Assessment Measures	Assessment Measure	Criterion	Summary	Attachments of the Assessments	Improvement Narratives
	Direct - Thesis or Project (Other)	Has the criterion A committee evaluates the student's project or thesis. In the case of a thesis option, scoring is by major advisor. In the case of a project, scoring is by rubric to evaluate the student's ability to solve practical problems in systems technology. The average score for all students will be 3.0 or higher on a 5.0 been met yet? Met	During this cycle, eight students completed their thesis or project. The average score for the eight students on their ability to demonstrate competence in solving practical problems in the field of systems technology is 4.7.		

Legend	A - Assessed				
Course/Event	Thesis / Report Document (Evaluation)				
Standard/Outcome	STEC.4 Demonstrate advanced reading, research, oral and written communication skills through a rigorous research approach.				
Assessment					

Measures	Assessment Measure	Criterion	Summary	Attachments of the Assessments	Improvement Narratives
	Direct - Thesis or Project (Other)	Has the criterion A committee evaluates the student's project or thesis. In the case of a thesis option, scoring is by major advisor. In the case of a project, scoring is by rubric to evaluate the student's abilities in advanced reading, research and written communication skills. The average score for all students will be 3.0 or higher on a 5.0 scale. been met yet? Met	During this cycle, eight students completed their thesis or project. The average score for the eight students on their abilities in advanced reading, research and oral and written communications skills is 4.8.		- Professional development/training: We will strongly encourage students to attend workshops and presentations on writing technical papers. These workshops and presentations are sponsored each semester by the UL Lafayette Graduate School.

Summary of Improvement Narratives

Improvement Narrative List

Assessment Findings for the Assessment Measure level

Standard/Outcome	STEC.4 Demonstrate advanced reading, research, oral and written communication skills through a rigorous research approach.
Legend	A
Course/Event	Oral Defense
Assessment Measure	Direct - Presentation
Assessment Findings	Met
Improvement	

Narrative	Improvement Type	Summary
	Professional development/training	We will strongly encourage students to attend workshops and presentations on giving technical presentations. These workshops and presentations are sponsored each semester by the UL Lafayette Graduate School.

Standard/Outcome	STEC.4 Demonstrate advanced reading, research, oral and written communication skills through a rigorous research approach.	
Legend	A	
Course/Event	Thesis / Report Document (Evaluation)	
Assessment Measure	Direct - Thesis or Project (Other)	
Assessment Findings	Met	
Improvement Narrative	Improvement Type	Summary
	Professional development/training	We will strongly encourage students to attend workshops and presentations on writing technical papers. These workshops and presentations are sponsored each semester by the UL Lafayette Graduate School.

Reflection

Reflection

The primary purpose of assessment is to use data to inform decisions and improve programs and operations; this is an on-going process of defining goals and expectations, collecting results, analyzing data, comparing current and past results and initiatives, and making decisions based on these reflections. Recalling this purpose, respond to the questions below.

1) How were assessment results shared in the unit?

Please select all that apply; if "other", please use the text box to elaborate.

Distributed via email (selected)

Presented formally at staff/department/committee meeting

Discussed informally (selected)

Other (explain in text box below)

2) How frequently were assessment results shared in the unit?

Frequently (>4 times per cycle)

Periodically (2-4 times per cycle)

Once per cycle (selected)

Results were not shared this cycle

3) With whom were assessment results shared?

Please select all that apply.

Department Head (selected)

Dean / Asst. or Assoc. Dean

Departmental assessment committee (selected)

Other faculty / staff (selected)

Other (please explain in text box below)

4) Consider the impact of prior applied changes. Specifically, compare current results to previous results to evaluate the impact of a previously reported change. Demonstrate how the use of results improved student learning and/or operations.

Systems Technology is a relatively new Master's program and our third cycle for entering data. We are currently meeting all our goals. We have not implemented any action plans at this point.

5) Over the past three assessment cycles, what has been the overall impact of "closing the loop"? Provide examples of improvements in student learning, program quality, or department operations that are directly linked to assessment data and follow-up analysis.

As indicated in the previous two cycles, we did not incorporate any improvement narratives until the outcome of the third assessment cycle. In spite of not having a

path for improvements, over the past three cycles, we have seen both an increase in the number of graduates and an increase or same level in the scores in the majority of the goals. For example: Our student showed an improvement from 4.0 to 4.6 out of 5.0 on demonstrating specialized knowledge and current trends in the area of Systems Technology.

Our first year data is skewed somewhat because it is based on only two graduates. This year's cycle is more representative to the actual scores based on eight graduates.

Attachments (optional)

Upload any documents which support the assessment process.