2016-2017 Assessment Cycle (College of Engineering) ENGR_Chemical Engineering 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".

Goals (University/Program tied to Curriculum)

Standards/Outcomes

Identifier	Description
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
MS Engineering.MSE1	An ability to demonstrate breadth of knowledge across the general field of engineering.
MS Engineering.MSE2	An ability to demonstrate depth of knowledge in an area of specialization beyond the level of a B.S. degree in engineering.
MS Engineering.MSE3	An ability to demonstrate competence in solving practical problems in the field of engineering.
MS Engineering.MSE4	An ability to demonstrate readiness to enter and succeed in an engineering PhD program.

Curriculum Map

Assessment Findings for the Assessment Measure level for MSE (Chemical Engineering)

Legend	A - Assessed
Course/Event	Oral Exam
Standard/Outcome	MS Engineering.MSE1 An ability to demonstrate breadth of knowledge across the general field of engineering.
Assessment Measures	

Assessment Measure	Criterion	Summary	Attachments of the Assessments	Improvement Narratives
Direct - Presentation	Has the criterion 80% of students will achieve a score of 3 or better on their oral exam using a standard rubric. been met yet? Met			- Assessment Process: Continuous monitoring:

Legend	A - Assessed
Course/Event	Oral Exam
Standard/Outcome	MS Engineering.MSE2 An ability to demonstrate depth of knowledge in an area of specialization beyond the level of a B.S. degree in engineering.
Assessment Measures	

Assessment Measure	Criterion	Summary	Attachments of the Assessments	Improvement Narratives
Direct - Presentation	Has the criterion 80% of students will achieve a score of 3 or better on their oral exam using a standard rubric. been met yet? Met			- Assessment Process: Continuous monitoring:

Legend	A - Assessed
Course/Event	Oral Exam
Standard/Outcome	MS Engineering.MSE3 An ability to demonstrate competence in solving practical problems in the field of engineering.
Assessment Measures	

Assessment Measure	Criterion	Summary	Attachments of the Assessments	Improvement Narratives
Direct - Presentation	Has the criterion 80% of students will achieve a score of 3 or better on their oral exam using a standard rubric. been met yet? Met			- Assessment Process: Continuous monitoring:

Legend	A - Assessed
Course/Event	Oral Exam
Standard/Outcome	MS Engineering.MSE4 An ability to demonstrate readiness to enter and succeed in an engineering PhD program.
Assessment Measures	

Assessment Measure	Criterion	Summary	Attachments of the Assessments	Improvement Narratives
Direct - Presentation	Has the criterion 80% of students will achieve a score of 3 or better on their oral exam using a standard rubric. been met yet? Met			- Assessment Process: Continuous monitoring:

Legend	A - Assessed
Course/Event	Thesis / Report
Standard/Outcome	MS Engineering.MSE2 An ability to demonstrate depth of knowledge in an area of specialization beyond the level of a B.S. degree in engineering.
Assessment Measures	

Assessment Measure	Criterion	Summary	Attachments of the Assessments	Improvement Narratives
Direct - Thesis	Has the criterion 80% of students will achieve a score of 3 or better on their oral exam using a standard rubric. been met yet? Met			- Assessment Process: Continuous monitoring:

Legend	A - Assessed
Course/Event	Thesis / Report
Standard/Outcome	MS Engineering.MSE3 An ability to demonstrate competence in solving practical problems in the field of engineering.
Assessment Measures	

Assessment Measure	Criterion	Summary	Attachments of the Assessments	Improvement Narratives
Direct - Thesis	Has the criterion 80% of students will achieve a score of 3 or better on their oral exam using a standard rubric. been met yet? Met			- Assessment Process: Continuous monitoring:

Legend	A - Assessed
Course/Event	Thesis / Report
Standard/Outcome	MS Engineering.MSE4 An ability to demonstrate readiness to enter and succeed in an engineering PhD program.
Assessment Measures	

Assessment Measure	Criterion	Summary	Attachments of the Assessments	Improvement Narratives
Direct - Thesis	Has the criterion 80% of students will achieve a score of 3 or better on their oral exam using a standard rubric. been met yet? Met			- Assessment Process: Continuous monitoring:

Legend	A - Assessed
Course/Event	MCHE 508
Standard/Outcome	MS Engineering.MSE1 An ability to demonstrate breadth of knowledge across the general field of engineering.
Assessment Measures	

Assessment Measure	Criterion	Summary	Attachments of the Assessments	Improvement Narratives
Direct - Presentation	Has the criterion 80% of students will achieve a score of 3 or better on their oral presentation using a standard rubric. been met yet?			

Legend	A - Assessed
Course/Event	MCHE 508
Standard/Outcome	MS Engineering.MSE4 An ability to demonstrate readiness to enter and succeed in an engineering PhD program.
Assessment Measures	

Assessment Measure	Criterion	Summary	Attachments of the Assessments	Improvement Narratives
Direct - Presentation	Has the criterion 80% of students will achieve a score of 3 or better on their oral presentation using a standard rubric. been met yet?			

Summary of Improvement Narratives

Improvement Narrative List

Assessment Findings for the Assessment Measure level

Standard/Outcome	MS Engineering.MSE1 An ability to demonstrate breadth of knowledge across the general field of engineering.
Legend	A
Course/Event	Oral Exam
Assessment Measure	Direct - Presentation
Assessment Findings	Met
Improvement Narrative	

Improvement Type	Summary
Assessment Process: Continuous monitoring	

Standard/Outcome	MS Engineering.MSE2 An ability to demonstrate depth of knowledge in an area of specialization beyond the level of a B.S. degree in engineering.
Legend	A
Course/Event	Oral Exam
Assessment Measure	Direct - Presentation
Assessment Findings	Met
Improvement Narrative	

Improvement Type	Summary
Assessment Process: Continuous monitoring	

Standard/Outcome	MS Engineering.MSE3 An ability to demonstrate competence in solving practical problems in the field of engineering.
Legend	A
Course/Event	Oral Exam
Assessment Measure	Direct - Presentation
Assessment Findings	Met
Improvement Narrative	

Improvement Type	Summary
Assessment Process: Continuous monitoring	

Standard/Outcome	MS Engineering.MSE4 An ability to demonstrate readiness to enter and succeed in an engineering PhD program.
Legend	A
Course/Event	Oral Exam
Assessment Measure	Direct - Presentation
Assessment Findings	Met
Improvement Narrative	

Improvement Type	Summary
Assessment Process: Continuous monitoring	

Standard/Outcome	MS Engineering.MSE2 An ability to demonstrate depth of knowledge in an area of specialization beyond the level of a B.S. degree in engineering.
Legend	A
Course/Event	Thesis / Report
Assessment Measure	Direct - Thesis
Assessment Findings	Met
Improvement Narrative	

Improvement Type	Summary
Assessment Process: Continuous monitoring	

Standard/Outcome	MS Engineering.MSE3 An ability to demonstrate competence in solving practical problems in the field of engineering.
Legend	A
Course/Event	Thesis / Report

Assessment Measure	Direct - Thesis
Assessment Findings	Met
Improvement Narrative	

Improvement Type	Summary
Assessment Process: Continuous monitoring	

Standard/Outcome	MS Engineering.MSE4 An ability to demonstrate readiness to enter and succeed in an engineering PhD program.
Legend	A
Course/Event	Thesis / Report
Assessment Measure	Direct - Thesis
Assessment Findings	Met
Improvement Narrative	

Improvement Type	Summary
Assessment Process: Continuous monitoring	

Reflection

Reflection

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
Presented formally at staff/department/committee meeting (selected)
Discussed informally (selected)
Other (explain in text box below)

Thesis and dissertations are carefully evaluated and discuss by faculty assigned to student committees. The satisfactory completion of a defense is demonstration of students knowledge and the field and application of research in industry.

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) What were the measurable or perceivable effects on your current (2016-2017) findings based on prior action plans (created in 2015-2016)?

We closely monitor the performance of graduate students, and the quality of scholarly products. Students are encouraged to publish, and present results at state and national conferences.

5) What has the unit learned from the current assessment cycle?

As a faculty we have learned students need clarity on graduate student policies. Graduate students also need more information about the types of jobs for students with graduate degrees, and the comprehensive nature of problem solving and research required to complete a thesis.