

## 2017-2018 Assessment Cycle (College of Engineering) ENGR\_Chemical Engineering BS

### 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 mission of the Chemical Engineering program at the University of Louisiana at Lafayette is to provide highly qualified graduates who are well trained for industry, graduate or professional schools, and academia.

### Goals (University/Program tied to Curriculum)

#### Standards/Outcomes

Identifier	Description
ABET-	CRITERION: Program Outcomes and Assessment Although institutions may use different terminology, for purposes of Criterion 3, program

<b>EAC.1.3</b>	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.
<b>ABET-EAC.1.3.1</b>	> an ability to apply knowledge of mathematics, science, and engineering
<b>ABET-EAC.1.3.10</b>	> a knowledge of contemporary issues
<b>ABET-EAC.1.3.11</b>	> an ability to use the techniques, skills, and modern engineering tools necessary for engineering practice.
<b>ABET-EAC.1.3.12</b>	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.
<b>ABET-EAC.1.3.2</b>	> an ability to design and conduct experiments, as well as to analyze and interpret data
<b>ABET-EAC.1.3.3</b>	> an ability to design a system, component, or process to meet desired needs
<b>ABET-EAC.1.3.4</b>	> an ability to function on multi-disciplinary teams
<b>ABET-EAC.1.3.5</b>	> an ability to identify, formulate, and solve engineering problems
<b>ABET-EAC.1.3.6</b>	> an understanding of professional and ethical responsibility
<b>ABET-EAC.1.3.7</b>	> an ability to communicate effectively
<b>ABET-EAC.1.3.8</b>	> the broad education necessary to understand the impact of engineering solutions in a global and societal context
<b>ABET-EAC.1.3.9</b>	> a recognition of the need for, and an ability to engage in life-long learning

## Curriculum Map

### Assessment Findings for the Assessment Measure level for Chemical Engineering(Imported)

Legend	A - Assessed
Course/Event	Course Embedded Assessment

Standard/Outcome	ABET-EAC.1.3.1 > an ability to apply knowledge of mathematics, science, and engineering				
Assessment Measures	<b>Assessment Measure</b>	<b>Criterion</b>	<b>Summary</b>	<b>Attachments of the Assessments</b>	<b>Improvement Narratives</b>
	Direct - Course assessment (Other)	Has the criterion Questions are embedded in final and course exams, homeworks, and projects relevant to specific outcomes (all defined by faculty). Courses in which assessments take place are Fall: CHEE 201, 317, 400, 401, 405, 407, 420; Spring: CHEE 302, 310, 408, 413, 427; Other: CHEE 210, ENGR 301, 305. As a department we will meet a 70% cumulative score from all the assessment outcomes defined within the courses. been met yet? Met	As a department we obtained an 81% cumulative score from all the assessment outcomes defined within the courses.		

Legend	A - Assessed				
Course/Event	Course Embedded Assessment				
Standard/Outcome	ABET-EAC.1.3.10 > a knowledge of contemporary issues				
Assessment Measures	<b>Assessment Measure</b>	<b>Criterion</b>	<b>Summary</b>	<b>Attachments of the Assessments</b>	<b>Improvement Narratives</b>
	Direct - Course assessment (Other)	Has the criterion Questions are embedded in final and course exams, homeworks, and projects relevant to specific outcomes (all defined by faculty). Courses in which assessments take place are Fall: CHEE 403; Spring: CHEE 404, 408. As a department we will meet a 70% cumulative score from	We did not collect data on this particular outcome last year.	Taskforassessmnet.pptx	- Assessment Process: Data Collection changed: We had a faculty meeting and discussed the lack of assessment instruments to measure this particular outcome. Faculty teaching elected courses will start including assessment instruments to measure this outcome. The same overall departmental metric

		all the assessment outcomes defined within the courses. been met yet? Not met			will be followed and reported next year. The attached file summarizes the assessment results discussed with the faculty.
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Legend	A - Assessed				
Course/Event	Course Embedded Assessment				
Standard/Outcome	ABET-EAC.1.3.11 > an ability to use the techniques, skills, and modern engineering tools necessary for engineering practice.				
Assessment Measures	<b>Assessment Measure</b>	<b>Criterion</b>	<b>Summary</b>	<b>Attachments of the Assessments</b>	<b>Improvement Narratives</b>
	Direct - Course assessment (Other)	Has the criterion Questions are embedded in final and course exams, homeworks, and projects relevant to specific outcomes (all defined by faculty). Courses in which assessments take place are Fall: CHEE 317, 400, 401, 405, 407, 420; Spring: CHEE 302, 408, 413, 427; Other: CHEE 210. As a department we will meet a 70% cumulative score from all the assessment outcomes defined within the courses. been met yet? Met	As a department, we had over 80% cumulative score from all the assessment outcomes defined within the courses.		

Legend	A - Assessed				
Course/Event	Course Embedded Assessment				
Standard/Outcome	ABET-EAC.1.3.2 > an ability to design and conduct experiments, as well as to analyze and interpret data				
Assessment					

Measures	<b>Assessment Measure</b>	<b>Criterion</b>	<b>Summary</b>	<b>Attachments of the Assessments</b>	<b>Improvement Narratives</b>
	Direct - Course assessment (Other)	Has the criterion Questions are embedded in final and course exams, homeworks, and projects relevant to specific outcomes (all defined by faculty). Courses in which assessments take place are Fall: CHEE 403; Spring: CHEE 404, 413. As a department we will meet a 70% cumulative score from all the assessment outcomes defined within the courses. been met yet? Met	As a department, we scored 85% cumulative score from all the assessment outcomes defined within the courses.		

Legend	A - Assessed				
Course/Event	Course Embedded Assessment				
Standard/Outcome	ABET-EAC.1.3.3 > an ability to design a system, component, or process to meet desired needs				
Assessment Measures	<b>Assessment Measure</b>	<b>Criterion</b>	<b>Summary</b>	<b>Attachments of the Assessments</b>	<b>Improvement Narratives</b>
		Has the criterion Questions are embedded in final and course exams, homeworks, and projects relevant to specific outcomes (all defined by faculty). Courses in which assessments take place are Fall: CHEE 201, 401, 405, 407, 420; Spring: CHEE 310, 408; Other: ENGR 301, ENGR 305. As a department we will meet a 70% cumulative score from all the assessment outcomes defined within the courses. been met yet? Met	As a department, we scored over 80% cumulative score from all the assessment outcomes defined within the courses.		

Legend	A - Assessed				
Course/Event	Course Embedded Assessment				
Standard/Outcome	ABET-EAC.1.3.4 > an ability to function on multi-disciplinary teams				
Assessment Measures	<b>Assessment Measure</b>	<b>Criterion</b>	<b>Summary</b>	<b>Attachments of the Assessments</b>	<b>Improvement Narratives</b>
	Direct - Course assessment (Other)	Has the criterion Questions are embedded in final and course exams, homeworks, and projects relevant to specific outcomes (all defined by faculty). Courses in which assessments take place are Fall: CHEE 317, 403, 405; Spring: CHEE 404, 427; Other: ENGR 305. As a department we will meet a 70% cumulative score from all the assessment outcomes defined within the courses. been met yet? Met	As a department, we scored over 80% cumulative score from all the assessment outcomes defined within the courses.		

Legend	A - Assessed				
Course/Event	Course Embedded Assessment				
Standard/Outcome	ABET-EAC.1.3.5 > an ability to identify, formulate, and solve engineering problems				
Assessment Measures	<b>Assessment Measure</b>	<b>Criterion</b>	<b>Summary</b>	<b>Attachments of the Assessments</b>	<b>Improvement Narratives</b>
	Indirect - Course assessment	Has the criterion Questions are embedded in final and course exams, homeworks, and projects relevant to specific outcomes (all defined by faculty). Courses in	As a department, we scored over 75% cumulative score from		

	(Other)	which assessments take place are Fall: CHEE 201, 317, 400, 401, 405, 407, 420; Spring: CHEE 302, 310, 408, 413, 427; Other: ENGR 301, 305. As a department we will meet a 70% cumulative score from all the assessment outcomes defined within the courses. been met yet? Met	all the assessment outcomes defined within the courses.		
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Legend	A - Assessed				
Course/Event	Course Embedded Assessment				
Standard/Outcome	ABET-EAC.1.3.6 > an understanding of professional and ethical responsibility				
Assessment Measures	<b>Assessment Measure</b>	<b>Criterion</b>	<b>Summary</b>	<b>Attachments of the Assessments</b>	<b>Improvement Narratives</b>
	Direct - Project	Has the criterion Questions are embedded in final and course exams, homeworks, and projects relevant to specific outcomes (all defined by faculty). Courses in which assessments take place are Fall: CHEE 403, 407; Spring: CHEE 404, 408; Other: CHEE 307. As a department we will meet a 70% cumulative score from all the assessment outcomes defined within the courses. been met yet? Met	As a department, we scored over 90% cumulative score from all the assessment outcomes defined within the courses.		- Assessment Process: Data Collection changed: Even though we met the metric established as a department, we collected very few data points to assess this outcome. The result was discussed with the faculty and more assessment instruments will be included in selected courses to measure the outcome this year.

Legend	A - Assessed				
Course/Event	Course Embedded Assessment				
Standard/Outcome	ABET-EAC.1.3.7 > an ability to communicate effectively				
Assessment Measures	<b>Assessment Measure</b>	<b>Criterion</b>	<b>Summary</b>	<b>Attachments of the Assessments</b>	<b>Improvement Narratives</b>
	Direct - Course assessment (Other)	Has the criterion Questions are embedded in final and course exams, homeworks, and projects relevant to specific outcomes (all defined by faculty). Courses in which assessments take place are Fall: CHEE 317, 403, 405, 407; Spring: CHEE 404, 408, 413, 427. As a department we will meet a 70% cumulative score from all the assessment outcomes defined within the courses. been met yet? Met	As a department, we scored over 85% cumulative score from all the assessment outcomes defined within the courses.		

Legend	A - Assessed				
Course/Event	Course Embedded Assessment				
Standard/Outcome	ABET-EAC.1.3.8 > the broad education necessary to understand the impact of engineering solutions in a global and societal context				
Assessment Measures	<b>Assessment Measure</b>	<b>Criterion</b>	<b>Summary</b>	<b>Attachments of the Assessments</b>	<b>Improvement Narratives</b>
	Direct - Course assessment (Other)	Has the criterion Questions are embedded in final and course exams, homeworks, and projects relevant to specific outcomes (all defined by faculty). Courses in which assessments take place are Fall: CHEE 400, 407;	As a department, we scored over 80% cumulative score from all the assessment outcomes defined		- Assessment Process: Data Collection changed: Even though we met the metric established as a department, more data is necessary to effectively assess this outcome. The result was discussed with the



		Spring: CHEE 408. As a department we will meet a 70% cumulative score from all the assessment outcomes defined within the courses. been met yet? Met	within the courses.		faculty and more assessment instruments will be prepared and embedded in selected courses.
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Legend	A - Assessed				
Course/Event	Course Embedded Assessment				
Standard/Outcome	ABET-EAC.1.3.9 > a recognition of the need for, and an ability to engage in life-long learning				
Assessment Measures	<b>Assessment Measure</b>	<b>Criterion</b>	<b>Summary</b>	<b>Attachments of the Assessments</b>	<b>Improvement Narratives</b>
	Direct - Course assessment (Other)	Has the criterion Questions are embedded in final and course exams, homeworks, and projects relevant to specific outcomes (all defined by faculty). Courses in which assessments take place are Fall: CHEE 403, 407; Spring: CHEE 404, 408. As a department we will meet a 70% cumulative score from all the assessment outcomes defined within the courses. been met yet? Met	As a department, we scored 70% cumulative score from all the assessment outcomes defined within the courses.		

Legend	A - Assessed				
Course/Event	Senior Exit Interviews				
Standard/Outcome	ABET-EAC.1.3.1 > an ability to apply knowledge of mathematics, science, and engineering				
Assessment					

Measures	<b>Assessment Measure</b>	<b>Criterion</b>	<b>Summary</b>	<b>Attachments of the Assessments</b>	<b>Improvement Narratives</b>
	Indirect - Exit Interviews	Has the criterion Students complete the Senior Exit Interview and their scores are averaged to give a cumulative score for a year. Survey scores from the following courses listed on the Senior Exit Interview form will be used to compute this average Fall: CHEE 201, 317, 400, 401, 405, 407, 420; Spring: CHEE 302, 310, 408, 413, 427; Other: CHEE 210, ENGR 301, 305. As a department we expect to score an average of 3 out of 5 on the survey for these courses listed here. been met yet? Met	This outcome was scored over 3/5 by students conducting the senior exit interview.		

Legend	A - Assessed				
Course/Event	Senior Exit Interviews				
Standard/Outcome	ABET-EAC.1.3.10 > a knowledge of contemporary issues				
Assessment Measures	<b>Assessment Measure</b>	<b>Criterion</b>	<b>Summary</b>	<b>Attachments of the Assessments</b>	<b>Improvement Narratives</b>
	Indirect - Exit Interviews	Has the criterion Students complete the Senior Exit Interview and their scores are averaged to give a cumulative score for a year. Survey scores from the following courses listed on the Senior Exit Interview form will be used to compute this average Fall: CHEE 403; Spring: CHEE 404, 408. As a department we expect to score an average of 3 out of 5 on the survey for these courses listed here. been met yet? Met	As a department, we scored over 3/5 on this outcome from students participating in student exit interviews.		

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Legend	A - Assessed				
Course/Event	Senior Exit Interviews				
Standard/Outcome	ABET-EAC.1.3.11 > an ability to use the techniques, skills, and modern engineering tools necessary for engineering practice.				
Assessment Measures	<b>Assessment Measure</b>	<b>Criterion</b>	<b>Summary</b>	<b>Attachments of the Assessments</b>	<b>Improvement Narratives</b>
	Indirect - Exit Interviews	Has the criterion Students complete the Senior Exit Interview and their scores are averaged to give a cumulative score for a year. Survey scores from the following courses listed on the Senior Exit Interview form will be used to compute this average Fall: CHEE 317, 400, 401, 405, 407, 420; Spring: CHEE 302, 408, 413, 427; Other: CHEE 210. As a department we expect to score an average of 3 out of 5 on the survey for these courses listed here. been met yet? Met	As a department, we scored an average of over 3 out of 5 on the survey.		

Legend	A - Assessed				
Course/Event	Senior Exit Interviews				
Standard/Outcome	ABET-EAC.1.3.2 > an ability to design and conduct experiments, as well as to analyze and interpret data				
Assessment Measures	<b>Assessment Measure</b>	<b>Criterion</b>	<b>Summary</b>	<b>Attachments of the Assessments</b>	<b>Improvement Narratives</b>

	Indirect - Exit Interviews	Has the criterion Students complete the Senior Exit Interview and their scocores are averaged to give a cumulative score for a year. Survey scores from the following courses listed on the Senior Exit Interview form will be used to compute this average Fall: CHEE 403; Spring: CHEE 404, 413. As a department we expect to score an average of 3 out of 5 on the survey for these courses listed here. been met yet? Met	As a department, we scored an average of over 3 out of 5 on the survey for these courses.		
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Legend	A - Assessed				
Course/Event	Senior Exit Interviews				
Standard/Outcome	ABET-EAC.1.3.3 > an ability to design a system, component, or process to meet desired needs				
Assessment Measures	<b>Assessment Measure</b>	<b>Criterion</b>	<b>Summary</b>	<b>Attachments of the Assessments</b>	<b>Improvement Narratives</b>
	Indirect - Exit Interviews	Has the criterion Students complete the Senior Exit Interview and their scocores are averaged to give a cumulative score for a year. Survey scores from the following courses listed on the Senior Exit Interview form will be used to compute this average Fall: CHEE 201, 401, 405, 407, 420; Spring: CHEE 310, 408; Other: ENGR 301, ENGR 305. As a department we expect to score an average of 3 out of 5 on the survey for these courses listed here. been met yet? Met	As a department, we scored an average of over 3 out of 5 on the survey.		

Legend	A - Assessed				
Course/Event	Senior Exit Interviews				
Standard/Outcome	ABET-EAC.1.3.4 > an ability to function on multi-disciplinary teams				
Assessment Measures	<b>Assessment Measure</b>	<b>Criterion</b>	<b>Summary</b>	<b>Attachments of the Assessments</b>	<b>Improvement Narratives</b>
	Indirect - Exit Interviews	Has the criterion Students complete the Senior Exit Interview and their scores are averaged to give a cumulative score for a year. Survey scores from the following courses listed on the Senior Exit Interview form will be used to compute this average Fall: CHEE 317, 403, 405; Spring: CHEE 404, 427; Other: ENGR 305. As a department we expect to score an average of 3 out of 5 on the survey for these courses listed here. been met yet? Met	As a department, we scored an average of over 3 out of 5 on the survey.		

Legend	A - Assessed				
Course/Event	Senior Exit Interviews				
Standard/Outcome	ABET-EAC.1.3.5 > an ability to identify, formulate, and solve engineering problems				
Assessment Measures	<b>Assessment Measure</b>	<b>Criterion</b>	<b>Summary</b>	<b>Attachments of the Assessments</b>	<b>Improvement Narratives</b>
	Indirect - Exit Interviews	Has the criterion Students complete the Senior Exit Interview and their scores are averaged to give a cumulative score for a year. Survey scores from the following courses listed on the Senior Exit Interview form will be used to compute this average Fall: CHEE 201, 317, 400, 401, 405, 407, 420; Spring: CHEE 302, 310, 408, 413,	As a department, we scored an average of over 3 out of 5 on the survey.		

		427; Other: ENGR 301, 305. As a department we expect to score an average of 3 out of 5 on the survey for these courses listed here. been met yet? Met			
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Legend	A - Assessed				
Course/Event	Senior Exit Interviews				
Standard/Outcome	ABET-EAC.1.3.6 > an understanding of professional and ethical responsibility				
Assessment Measures	<b>Assessment Measure</b>	<b>Criterion</b>	<b>Summary</b>	<b>Attachments of the Assessments</b>	<b>Improvement Narratives</b>
	Indirect - Exit Interviews	Has the criterion Students complete the Senior Exit Interview and their scores are averaged to give a cumulative score for a year. Survey scores from the following courses listed on the Senior Exit Interview form will be used to compute this average Fall: CHEE 407; Spring: CHEE 408. As a department we expect to score an average of 3 out of 5 on the survey for these courses listed here. been met yet? Met	As a department, we scored an average of over 3 out of 5 on the survey.		

Legend	A - Assessed				
Course/Event	Senior Exit Interviews				
Standard/Outcome	ABET-EAC.1.3.7 > an ability to communicate effectively				
Assessment					

Measures	<b>Assessment Measure</b>	<b>Criterion</b>	<b>Summary</b>	<b>Attachments of the Assessments</b>	<b>Improvement Narratives</b>
	Indirect - Exit Interviews	Has the criterion Students complete the Senior Exit Interview and their scores are averaged to give a cumulative score for a year. Survey scores from the following courses listed on the Senior Exit Interview form will be used to compute this average Fall: CHEE 317, 403, 405, 407; Spring: CHEE 404, 408, 413, 427. As a department we expect to score an average of 3 out of 5 on the survey for these courses listed here. been met yet? Met	As a department, we scored an average of over 3 out of 5 on the survey.		

Legend	A - Assessed				
Course/Event	Senior Exit Interviews				
Standard/Outcome	ABET-EAC.1.3.8 > the broad education necessary to understand the impact of engineering solutions in a global and societal context				
Assessment Measures	<b>Assessment Measure</b>	<b>Criterion</b>	<b>Summary</b>	<b>Attachments of the Assessments</b>	<b>Improvement Narratives</b>
	Indirect - Exit Interviews	Has the criterion Students complete the Senior Exit Interview and their scores are averaged to give a cumulative score for a year. Survey scores from the following courses listed on the Senior Exit Interview form will be used to compute this average Fall: CHEE 400, 407; Spring: CHEE 408. As a department we expect to score an average of 3 out of 5 on the survey for these courses listed here. been met yet? Met	As a department, we scored an average of over 3 out of 5 on the survey.		

Legend	A - Assessed				
Course/Event	Senior Exit Interviews				
Standard/Outcome	ABET-EAC.1.3.9 > a recognition of the need for, and an ability to engage in life-long learning				
Assessment Measures	<b>Assessment Measure</b>	<b>Criterion</b>	<b>Summary</b>	<b>Attachments of the Assessments</b>	<b>Improvement Narratives</b>
	Indirect - Exit Interviews	Has the criterion Students complete the Senior Exit Interview and their scores are averaged to give a cumulative score for a year. Survey scores from the following courses listed on the Senior Exit Interview form will be used to compute this average Fall: CHEE 403, 407; Spring: CHEE 404, 408. As a department we expect to score an average of 3 out of 5 on the survey for these courses listed here. been met yet? Met	As a department, we scored an average of over 3 out of 5 on the survey		

## Summary of Improvement Narratives

### Improvement Narrative List

#### Assessment Findings for the Assessment Measure level

Standard/Outcome	ABET-EAC.1.3.10 > a knowledge of contemporary issues
Legend	A
Course/Event	Course Embedded Assessment
Assessment	Direct - Course assessment (Other)



Measure					
Assessment Findings	Not met				
Improvement Narrative					
	<table border="1"> <thead> <tr> <th>Improvement Type</th> <th>Summary</th> </tr> </thead> <tbody> <tr> <td>Assessment Process: Data Collection changed</td> <td>We had a faculty meeting and discussed the lack of assessment instruments to measure this particular outcome. Faculty teaching elected courses will start including assessment instruments to measure this outcome. The same overall departmental metric will be followed and reported next year. The attached file summarizes the assessment results discussed with the faculty.</td> </tr> </tbody> </table>	Improvement Type	Summary	Assessment Process: Data Collection changed	We had a faculty meeting and discussed the lack of assessment instruments to measure this particular outcome. Faculty teaching elected courses will start including assessment instruments to measure this outcome. The same overall departmental metric will be followed and reported next year. The attached file summarizes the assessment results discussed with the faculty.
	Improvement Type	Summary			
Assessment Process: Data Collection changed	We had a faculty meeting and discussed the lack of assessment instruments to measure this particular outcome. Faculty teaching elected courses will start including assessment instruments to measure this outcome. The same overall departmental metric will be followed and reported next year. The attached file summarizes the assessment results discussed with the faculty.				

Standard/Outcome	ABET-EAC.1.3.6 > an understanding of professional and ethical responsibility				
Legend	A				
Course/Event	Course Embedded Assessment				
Assessment Measure	Direct - Project				
Assessment Findings	Met				
Improvement Narrative					
	<table border="1"> <thead> <tr> <th>Improvement Type</th> <th>Summary</th> </tr> </thead> <tbody> <tr> <td>Assessment Process: Data Collection changed</td> <td>Even though we met the metric established as a department, we collected very few data points to assess this outcome. The result was discussed with the faculty and more assessment instruments will be included in selected courses to measure the outcome this year.</td> </tr> </tbody> </table>	Improvement Type	Summary	Assessment Process: Data Collection changed	Even though we met the metric established as a department, we collected very few data points to assess this outcome. The result was discussed with the faculty and more assessment instruments will be included in selected courses to measure the outcome this year.
	Improvement Type	Summary			
Assessment Process: Data Collection changed	Even though we met the metric established as a department, we collected very few data points to assess this outcome. The result was discussed with the faculty and more assessment instruments will be included in selected courses to measure the outcome this year.				

Standard/Outcome	ABET-EAC.1.3.8 > the broad education necessary to understand the impact of engineering solutions in a global and societal context
Legend	A
Course/Event	Course Embedded Assessment

Assessment Measure	Direct - Course assessment (Other)	
Assessment Findings	Met	
Improvement Narrative		
	<b>Improvement Type</b>	<b>Summary</b>
	Assessment Process: Data Collection changed	Even though we met the metric established as a department, more data is necessary to effectively assess this outcome. The result was discussed with the faculty and more assessment instruments will be prepared and embedded in selected courses.

## 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

Presented formally at staff/department/committee meeting (selected)

Discussed informally

Other (explain in text box below)

Assessment results are discussed with the faculty several times a year as part of the accreditation process. Areas of improvement are identified and remediation strategies discussed and established. This is an opportunity to discuss new assessment instruments that could help the program to better meet established metrics for specific outcomes.

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

Frequently (>4 times per cycle)  
 Periodically (2-4 times per cycle) (selected)  
 Once per cycle  
 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 (selected)  
 Departmental assessment committee (selected)  
 Other faculty / staff (selected)  
 Other (please explain in text box below) (selected)

Results are also shared with our industrial advisory board. Indirect surveys are actually conducted by this advisory board twice a year.

**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.**

Discussions of assessment results with the faculty have generated ideas to better deliver the material to the students and enhance learning. During the last year, several faculty members have implemented the use of Connect in courses as a result of faculty discussions. We have changed pre-reqs for specific courses as result of course assessment discussions with faculty. These changes are expected to enhance the level of preparation of students as they move from one course to another in the program.

**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.**

The attached file provides an example of course changes as a result of the assessment. New additions of content were introduced in CHEE 101 to better transition the students into other more complex chemical engineering courses and enhance communication skills. We have also introduced chemical process simulation software early in the curriculum as result of course assessments and advisory board discussions with the faculty and students.

**Attachments (optional)**

*Upload any documents which support the assessment process.*

91018\_CHEE101.pptx