2016-2017 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

EAC.1.3	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

Curriculum Map

Assessment Findings for the Assessment Measure level for Chemical Engineering

Legend	A - Assessed
Course/Event	Course Embedded Assessment

Assessment Measures					
	Assessment Measure	Criterion	Summary	Attachments of the Assessments	Improvement Narratives
	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	Results from assessment instruments were collected from each faculty member teaching the respective course. All these scores were added and the overall % was compared with the 70% departmental metric, which was met for all outcomes (see attached Excel sheet). Some examples of assessment forms are attached. Faculty members proposed improvements to specific courses ranging from providing more clear instructions during testing to bring speakers from industry to provide seminars and lectures.	CHEE_400_F2016_Course_Assessment_Form_Section_1.xlsx CHEE_201Fall_2016_Direct_Assessment_Form.docx CHEE_408Spring_2016_Direct_Assessment_Form.docx Assessment_Results_for_SACS_xlsx	- Pedagogical Change: Faculty members proposed improvements to specific courses ranging from providing more clear instructions during testing to bring speakers from industry to provide seminars and lectures. This improvements obtained from the course assessments were complemented with the senior exit interviews, and meetings between students and industrial advisory board.

Legend	A - Assessed							
Course/Event	Course Embedded Assessment							
Standard/Outcome	ABET-EAC.1.3.1	ABET-EAC.1.3.10 > a knowledge of contemporary issues						
Assessment Measures								
	Assessment	Criterion	Summary	A	ttachments of the	Improvement		

Measure			Assessments	Narratives
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 all the assessment outcomes defined within the courses. been met yet?	Metrics proposed by faculty members teaching the courses and the overall departmental metric was met. Some of the improvements proposed include a different evaluation of group work to enhance accountability of each group member. Techniques were discussed to improve the quality of technical presentations.CHEE 408 no includes specific lectures on process economics and online ASPEN videos.	CHEE_403Fall_2016_ABET_Assessment_Form.docx CHEE_408Spring_2016_Direct_Assessment_Form.docx	- Assessment Process: Continuous monitoring: See objective 1.

Legend	A - Assessed	- Assessed							
Course/Event	Course Embedd	Course Embedded Assessment							
Standard/Outcome	ABET-EAC.1.3.1	ABET-EAC.1.3.11 > an ability to use the techniques, skills, and modern engineering tools necessary for engineering practice.							
Assessment Measures									
	Assessment Measure	Criterion	Summary	Attachments of the Assessments	Improvement Narratives				
	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	Attached is the course assessment of CHEE 407-Chemical Engineering Plan Design. All faculty metrics were met in all assessment instruments. This course is refined every semester with new projects, and strategies to improve group dynamics.	CHEE_407Fall_2016_Direct_Assessment_Form.docx	- Assessment Process: Continuous monitoring: See objective 1.				

we will meet a 70% cumulative score from all the assessment outcomes defined within the courses. been met yet? Met

Course Embedded	Assessment			
\BET-EAC.1.3.2 >	an ability to design and conduct experiments, as well as to ana	lyze and interpret da	ata	
Assessment Measure	Criterion	Summary	Attachments of the Assessments	Improvement Narratives
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?	As discussed before for CHEE 403, all metrics were met.		
[Measure Direct - Course assessment	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?	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?	Measure 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? The Assessments As discussed before for CHEE 403, all metrics were met.

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	

Assessment Measure	Criterion	Summary	Attachments of the Assessments	Improvement Narratives
	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?	An example for course CHEE 405 is included as an example for meeting metrics established by the instructor. The students designed a heat exchanger to meet process needs.	Course_Assessment_Form_CHEE405_SP2016.xlsx	- Assessment Process: Continuous monitoring: See objective 1.

Legend	A - Assessed	A - Assessed						
Course/Event	Course Embedde	Course Embedded Assessment						
Standard/Outcome	ABET-EAC.1.3.4	ABET-EAC.1.3.4 > an ability to function on multi-disciplinary teams						
Assessment Measures								
	Assessment Measure	Criterion	Summary	Attachments of the Assessments	Improvement Narratives			
	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	CHEE 317 offers one of the best opportunities to test the ability to function on multi-disciplinary teams. The course is a requirement for students in mechanical, petroleum, and chemical engineering programs. The instructor noted no necessary improvements.	CHEE_317_FA_16.xlsx				

	courses. been met yet? Met		

Legend	A - Assessed						
Course/Event	Course Embedde	Course Embedded Assessment					
Standard/Outcome	ABET-EAC.1.3.5	\dot{s} > an ability to identify, formulate, and solve $\dot{\epsilon}$	engineering problems				
Assessment Measures							
	Assessment Measure	Criterion	Summary	Attachments of the Assessments	Improvement Narratives		
	Indirect - 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: 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?	Overall metrics were met for this objective. In the attached examples the instructor noted the need to emphasize specific course material for the next time the courses are offered (CHEE 420, and CHEE 201)	Course_Assessment_Form.revised.13Jan19.xlsx	- Assessment Process: Continuous monitoring: See objective 1.		

Legend	A - Assessed			
Course/Event	Course Embedded Assessment			
Standard/Outcome	ome ABET-EAC.1.3.6 > an understanding of professional and ethical responsibility			
Assessment				

Assessmen Measure	Criterion	Summary	Attachments of the Assessments	Improvement Narratives
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	A course on safety, ethics, and environment was developed to better comply with this objetive. Now the course is required of all students in the chemical engineering program. There were issues with the necessary skills students needed to complete meaningful projects related to safety in the chemical process industry. The issue was addressed by changing the pre-requirements for the course. These new pre-requirements will be included in the Fall 2018 Student Bulletin. Other courses also evaluate professional and ethical responsibility, including the unit operation labs, and capstone design courses.	CHEE_307Spring_2016_Direct_Assessment_Form.docx	- Policy / Process / Procedural: New requirements for CHEE 307 will be implemented starting with the Fall 2018 Student Bulletin.

Legend	A - Assessed						
Course/Event	Course Embedde	ed Assessment					
Standard/Outcome	ABET-EAC.1.3.7	ABET-EAC.1.3.7 > an ability to communicate effectively					
Assessment Measures							
	Assessment Measure	Criterion	Summary		Improvement Narratives		

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?	Students are evaluated on effective communication in CHEE 403, CHEE 404, CHEE 407, and CHEE 408. Assessment forms for these courses were attached previously. Students are judged on different technical aspects, including communication, by a panel of experts during the final presentations of CHEE 407 and CHEE 408.	- Assessment Process: Continuous monitoring: See objective 1.
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Legend	A - Assessed					
Course/Event	Course Embedded Assessment					
Standard/Outcome	ABET-EAC.1.3.8	> the broad education necessary to understand t	ne impact of engineering solution	ns in a global and so	cietal context	
Assessment Measures						
	Assessment Measure	Criterion	Summary	Attachments of the Assessments	Improvement Narratives	
	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; 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?	Capstone design courses, such as CHEE 407 and CHEE 408, clearly shows students the impact of effective chemical process design in society. Assessment forms were attached previously.		- Assessment Process: Continuous monitoring: See objective 1.	

Legend	A - Assessed					
Course/Event	Course Embedde	d 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						
	Assessment Measure	Criterion	Summary	Attachments of the Assessments	Improvement Narratives	
	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?	Capstone design courses show students the need to continuously improve engineering skills.		- Assessment Process: Continuous monitoring: See objective 1.	

Legend	A - Assessed						
Course/Event	Senior Exit Interv	Senior Exit Interviews					
Standard/Outcome	ABET-EAC.1.3.1	> an ability to apply knowledge of mathematics, science,	, and engineering				
Assessment Measures							
	Assessment Measure	Criterion	Summary	Attachments of the Assessments	Improvement Narratives		

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, 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?	- Pedagogical Change : Results of exit interviews are used to better assign faculty to specific courses.
	Met	

Legend	A - Assessed					
Course/Event	Senior Exit Interv	Senior Exit Interviews				
Standard/Outcome	ABET-EAC.1.3.1	0 > a knowledge of contemporary issues				
Assessment Measures						
	Assessment Measure	Criterion	Summary	Attachments of the Assessments	Improvement Narratives	
	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, 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			- Assessment Process: Continuous monitoring:	

Legend	A - Assessed				
Course/Event	Senior Exit Interviews				
Standard/Outcome	ABET-EAC.1.3.1	1 > an ability to use the techniques, skills, and modern engineering to	ools necessa	ry for engineering p	ractice.
Assessment Measures					
	Assessment Measure	Criterion	Summary	Attachments of the Assessments	Improvement Narratives
	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 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?			- Assessment Process: Continuous monitoring:

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

	courses listed here. been met yet? Met		

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					
	Assessment Measure	Criterion	Summary	Attachments of the Assessments	Improvement Narratives
	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?			- Assessment Process: Continuous monitoring:

	Assessment	Criterion	Summary	Attachments of	Improvement Narratives		
Assessment Measures							
Standard/Outcome	ABET-EAC.1.3.4	ET-EAC.1.3.4 > an ability to function on multi-disciplinary teams					
Course/Event	Senior Exit Interv	enior Exit Interviews					
Legend	A - Assessed						

	Measure		the Assessments	
	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 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?		- Assessment Process: Continuous monitoring: Exit interviews with students provide feedback on how to better evaluate group work, making individual students accountable.

Legend	A - Assessed						
Course/Event	Senior Exit Interv	Senior Exit Interviews					
Standard/Outcome	ABET-EAC.1.3.5	ABET-EAC.1.3.5 > an ability to identify, formulate, and solve engineering problems					
Assessment Measures							
	Assessment Measure	Criterion	Summary	Attachments of the Assessments	Improvement Narratives		
	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, 317, 400, 401, 405, 407, 420; Spring: CHEE 302, 310, 408, 413, 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			- Assessment Process: Continuous monitoring:		

A - Assessed						
Senior Exit Interviews						
ABET-EAC.1.3.6	ABET-EAC.1.3.6 > an understanding of professional and ethical responsibility					
Assessment Measure	Criterion	Summary	Attachments of the Assessments	Improvement Narratives		
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 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?			- Assessment Process: Continuous monitoring: We insure students understand the courses and experiences in the program that stress ethical responsability.		
	Senior Exit Interest ABET-EAC.1.3.6 Assessment Measure Indirect - Exit	Senior Exit Interviews ABET-EAC.1.3.6 > an understanding of professional and ethical respons Assessment Measure Criterion Has the criterion Students complete the Senior Exit Interviews 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 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?	Senior Exit Interviews ABET-EAC.1.3.6 > an understanding of professional and ethical responsibility Assessment Measure Criterion 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 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?	Senior Exit Interviews ABET-EAC.1.3.6 > an understanding of professional and ethical responsibility Assessment Measure Criterion Summary Attachments of the Assessments 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 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?		

Legend	A - Assessed						
Course/Event	Senior Exit Interv	riews					
Standard/Outcome	ABET-EAC.1.3.7	ABET-EAC.1.3.7 > an ability to communicate effectively					
Assessment Measures	_						
	Assessment Measure	Criterion	Summary	Attachments of the Assessments	Improvement Narratives		
	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			- Assessment Process: Continuous		

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		monitoring:

Legend	A - Assessed						
Course/Event	Senior Exit Interv	Senior Exit Interviews					
Standard/Outcome	ABET-EAC.1.3.8	ABET-EAC.1.3.8 > the broad education necessary to understand the impact of engineering solutions in a global and societal context					
Assessment Measures							
	Assessment Measure	Criterion	Summary	Attachments of the Assessments	Improvement Narratives		
	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 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?			- Assessment Process: Continuous monitoring:		
		1	I	<u> </u>			

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	

Assessment Measure	Criterion	Summary	Attachments of the Assessments	Improvement Narratives
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, 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			- Assessment Process: Continuous monitoring: These interviews are an excellent opportunity to stress to the graduates the importance of life-long learning, and provide feedback about how companies view and value well trained employees.

Summary of Improvement Narratives

Improvement Narrative List

Assessment Findings for the Assessment Measure level

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Standard/Outcome	ABET-EAC.1.3.1 > an ability to apply knowledge of mathematics, science, and engineering
Legend	A
Course/Event	Course Embedded Assessment
Assessment Measure	Direct - Course assessment (Other)
Assessment Findings	Met
Improvement Narrative	

Improvement Type	Summary	
Pedagogical Change	Faculty members proposed improvements to specific courses ranging from providing more clear instructions during testing to bring speakers from industry to provide seminars and lectures. This improvements obtained from the course assessments were complemented with the senior exit interviews, and meetings between students and industrial advisory board.	

Standard/Outcome	ABET-EAC.1.3.10 > a knowledge of contempor	ABET-EAC.1.3.10 > a knowledge of contemporary issues		
Legend	A			
Course/Event	Course Embedded Assessment	Course Embedded Assessment		
Assessment Measure	Direct - Course assessment (Other)			
Assessment Findings	Met	Met		
Improvement Narrative				
	-			
	Improvement Type	Summary		
	Assessment Process: Continuous monitoring	See objective 1.		

Standard/Outcome	ABET-EAC.1.3.11 > an ability to use the technic	ques, skills, and mo	dern engineering tools necessary for engineering practice.
Legend	Α		
Course/Event	Course Embedded Assessment		
Assessment Measure	Direct - Course assessment (Other)		
Assessment Findings	Met		
Improvement Narrative			
	Improvement Type	Summary	
	Assessment Process: Continuous monitoring	See objective 1.	

Standard/Outcome	ABET-EAC.1.3.3 > an ability to design a system	n, component, or p
Legend	A	
Course/Event	Course Embedded Assessment	
Assessment Measure		
Assessment Findings	Met	
Improvement Narrative		
	Improvement Type	Summary
	Assessment Process: Continuous monitoring	See objective 1.

Standard/Outcome	ABET-EAC.1.3.5 > an ability to identify, formula	ABET-EAC.1.3.5 > an ability to identify, formulate, and solve engineering problems		
Legend	A	A		
Course/Event	Course Embedded Assessment	Course Embedded Assessment		
Assessment Measure	Indirect - Course assessment (Other)			
Assessment Findings	Met	Met		
Improvement Narrative				
	Improvement Type	Summary		
	Assessment Process: Continuous monitoring	See objective 1.		

Standard/Outcome	ABET-EAC.1.3.6 > an understanding of professional and ethical responsibility
Legend	A

Course/Event	Course Embedded Assessmen	t		
Assessment Measure	Direct - Project			
Assessment Findings	Met			
Improvement Narrative				
	Improvement Type	mprovement Type Summary		
	Policy / Process / Procedural	olicy / Process / Procedural New requirements for CHEE 307 will be implemented starting with the Fall 2018 Student Bulletin.		

Standard/Outcome	ABET-EAC.1.3.7 > an ability to communicate effectively		
Legend	A		
Course/Event	Course Embedded Assessment		
Assessment Measure	Direct - Course assessment (Other)		
Assessment Findings	Met		
Improvement Narrative			
	-		
	Improvement Type	Summary	
	Assessment Process: Continuous monitoring	See objective 1.	

Standard/Outcome	ABET-EAC.1.3.8 > the broad education necess	ary to understand t	he 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			
		_	
	Improvement Type	Summary	

Assessment Process: Continuous monitoring	See objective 1.

Standard/Outcome	ABET-EAC.1.3.9 > a recognition of the need for, and an ability to engage in life-long learning		
Legend	A		
Course/Event	Course Embedded Assessment		
Assessment Measure	Direct - Course assessment (Other)		
Assessment Findings	Met		
Improvement Narrative			
		T	
	Improvement Type	Summary	
	Assessment Process: Continuous monitoring	See objective 1.	

Standard/Outcome	ABET-EAC.1.3.1 > an ability to apply knowledge of mathematics, science, and engineering		
Legend	A		
Course/Event	Senior Exit Interviews		
Assessment Measure	Indirect - Exit Interviews	3	
Assessment Findings	Met		
Improvement Narrative			
	Improvement Type Summary		
	Pedagogical Change Results of exit interviews are used to better assign faculty to specific courses.		

Standard/Outcome	ABET-EAC.1.3.10 > a knowledge of contemporary issues

Legend	A		
Course/Event	Senior Exit Interviews		
Assessment Measure	Indirect - Exit Interviews		
Assessment Findings	Met		
Improvement Narrative			
	Improvement Type	Summary	
	Assessment Process: Continuous monitoring		

Standard/Outcome	ABET-EAC.1.3.11 > an ability to use the techniques, skills, and modern engineering tools necessary for engineering practice.			
Legend	A	A		
Course/Event	Senior Exit Interviews			
Assessment Measure	Indirect - Exit Interviews			
Assessment Findings	Met			
Improvement Narrative				
	Improvement Type	Summary		
	Assessment Process: Continuous monitoring			

Standard/Outcome	ABET-EAC.1.3.2 > an ability to design and conduct experiments, as well as to analyze and interpret data
Legend	A
Course/Event	Senior Exit Interviews
Assessment Measure	Indirect - Exit Interviews
Assessment Findings	Met

Improvement Type	Summary
Assessment Process: Continuous monitoring	

Standard/Outcome	ABET-EAC.1.3.3 > an ability to design a system, component, or process to meet desired needs	
Legend	A	
Course/Event	Senior Exit Interviews	
Assessment Measure	Indirect - Exit Interviews	
Assessment Findings	Met	
Improvement Narrative		
	Improvement Type	Summary
	Assessment Process: Continuous monitoring	

Standard/Outcome	ABET-EAC.1.3.4 > an ability to function on multi-disciplinary teams		
Legend	Α		
Course/Event	Senior Exit Interviews		
Assessment Measure	Indirect - Exit Interviews		
Assessment Findings	Met		
Improvement Narrative			
	Improvement Type	Summary	
	Assessment Process: Continuous	Exit interviews with students provide feedback on how to better evaluate group work, making	

monitoring	individual students accountable.

Standard/Outcome	ABET-EAC.1.3.5 > an ability to identify, formulate, and solve engineering problems		
Legend	A		
Course/Event	Senior Exit Interviews		
Assessment Measure	Indirect - Exit Interviews		
Assessment Findings	Met		
Improvement Narrative			
	Improvement Type	Summary	
	Assessment Process: Continuous monitoring		
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Standard/Outcome	ABET-EAC.1.3.6 > an understanding of professional and ethical responsibility		
Legend	A		
Course/Event	Senior Exit Interviews		
Assessment Measure	Indirect - Exit Interviews		
Assessment Findings	Met		
Improvement Narrative			
	Improvement Type	Summary	
	Assessment Process: Continuous monitoring	We insure students understand the courses and experiences in the program that stress ethical responsability.	
		·	

ABET-EAC.1.3.7 > an ability to communicate effectively		
A		
Senior Exit Interviews		
Indirect - Exit Interviews		
Met		
Improvement Type	Summary	
Assessment Process: Continuous monitoring		
	Senior Exit Interviews Indirect - Exit Interviews Met Improvement Type	Senior Exit Interviews Indirect - Exit Interviews Met Improvement Type Summary

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	Senior Exit Interviews			
Assessment Measure	Indirect - Exit Interviews			
Assessment Findings	Met			
Improvement Narrative				
	Improvement Type	Summary		
	Assessment Process: Continuous monitoring			

Standard/Outcome	ABET-EAC.1.3.9 > a recognition of the need for, and an ability to engage in life-long learning	
Legend	A	
Course/Event	Senior Exit Interviews	
Assessment	Indirect - Exit Interviews	

Measure		
Assessment Findings	Met	
Improvement Narrative		
	Improvement Type	Summary
	Assessment Process: Continuous monitoring	These interviews are an excellent opportunity to stress to the graduates the importance of life-long learning, and provide feedback about how companies view and value well trained employees.

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 (selected)

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

Discussed informally

Other (explain in text box below)

Assessment results submitted by email and discussed in faculty, and advisory board meetings. Faculty provides comments for improvement and implementation plans. These improvement are continuously monitored using course assessment forms and student exit interviews.

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

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)?

The current action plan is more proactive in the implementation of program and course changes.

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

We have learned to better assess course requirements, the importance of interacting closely with industry and stress to students the specific objective of course activities and assessment instruments. Additionally, individual course assessments have provided faculty with a tool to measure course metrics, and implement changes based on metrics. As a faculty we discuss all course metrics, assessment instruments, and proposed changes. As a faculty we have a methodology to monitor changes, and assess impacts and improvement of metrics.