2017-2018 Assessment Cycle (College of Engineering) ENGR_Mechanical 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".

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

Additional Standards/Outcomes

Identifier	Description
MCHE BS.1	Prepare students to work professionally in the mechanical systems area
MCHE BS.2	Prepare students to work professionally in thermo-fluid systems area

Curriculum Map

Assessment Findings for the Assessment Measure level for Mechanical Engineering BS(Imported)

Legend	A - Assessed						
Course/Event	MCHE 357	MCHE 357					
Standard/Outcome	ABET-EAC.1.3.11	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 - Written Assignment	Has the criterion 80% of the students will meet or exceed expectations according to the rubric developed for the work products developed in this class been met yet? Met	95.6% of students met the expectations according to the rubric.				

Legend	A - Assessed						
Course/Event	MCHE 357	MCHE 357					
Standard/Outcome	ABET-EAC.1.3.2 >	an ability to design and conduct experiments, as we	ell as to analyze and interpr	et data			
Assessment Measures							
	Assessment Measure	Criterion	Summary	Attachments of the Assessments	Improvement Narratives		
	Direct - Written Assignment	Has the criterion 80% of the students will meet or exceed expectations according to the rubric developed for the work products developed in this class been met yet? Met	84.8% of students met the expectations according to the rubric.				

Legend	A - Assessed					
Course/Event	MCHE 357					
Standard/Outcome	ABET-EAC.1.3.7 >	an ability to communicate effectively				
Assessment Measures						
	Assessment Measure	Criterion	Summary	Attachments of the Assessments	Improvement Narratives	
	Direct - Written Assignment	Has the criterion 80% of the students will meet or exceed expectations according to the rubric developed for the work products developed in this class been met yet? Met	89.1% of students met the expectations according to the rubric.			
		this class been met yet?	according to the rubile.			

Legend	A - Assessed						
Course/Event	MCHE 358	MCHE 358					
Standard/Outcome	ABET-EAC.1.3.11	> an ability to use the techniques, skills, and modern	n engineering tools necessa	ary for engineering prac	ctice.		
Assessment Measures							
	Assessment Measure	Criterion	Summary	Attachments of the Assessments	Improvement Narratives		
	Direct - Written Assignment	Has the criterion 80% of the students will meet or exceed expectations according to the rubric developed for the work products developed in this class been met yet? Met	97.5% of students met the expectations according to the rubric.				

Legend	A - Assessed	A - Assessed						
Course/Event	MCHE 358	MCHE 358						
Standard/Outcome	ABET-EAC.1.3.2	> an ability to design and conduct e	xperiments, as well as	to analyze and inter	oret data			
Assessment Measures								
	Assessment Measure	Criterion	Summary	Attachments of the Assessments	Improvement Narratives			
	Direct - Written Assignment	Has the criterion 80% of the students will meet or exceed expectations according to the rubric developed for the work products developed in this class been met yet? Not met	77% of students met the expectations according to the rubric.		- Pedagogical Change: Increase emphasis on written presentation in MCHE 358. Actions taken include breaking the report into sections so that students address key aspects of the report a week at a time.			

Legend	A - Assessed						
Course/Event	MCHE 358						
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		
	Direct - Written Assignment	Has the criterion 80% of the students will meet or exceed expectations according to the rubric developed for the work products developed in this class been met yet? Met	89.5% of students met the expectations according to the rubric.				

Legend	A - Assessed						
Course/Event	MCHE 358	MCHE 358					
Standard/Outcome	MCHE BS.2 Prepa	MCHE BS.2 Prepare students to work professionally in thermo-fluid systems area					
Assessment Measures							
	Assessment Measure	Criterion	Summary	Attachments of the Assessments	Improvement Narratives		
	Direct - Written Assignment	Has the criterion 80% of the students will meet or exceed expectations according to the rubric developed for the work products developed in this class been met yet? Met	94.5% of students met the expectations according to the rubric.				

Legend	A - Assessed						
Course/Event	MCHE 469	MCHE 469					
Standard/Outcome	ABET-EAC.1.3.1	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		
	Direct - Written Assignment	Has the criterion 80% of the students will meet or exceed expectations according to the rubric developed for the work products developed in this class	79% of students met the expectations according to the rubric.		- Pedagogical Change : Unforeseen weather events prevented increasing the amount of coverage from the previous year, so this corrective action will continue into the new year. Increase coverage of		

	been met yet? Not met		radiation in MCHE 469.

Legend	A - Assessed	- Assessed								
Course/Event	MCHE 469	MCHE 469								
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					
	Direct - Written Assignment	Has the criterion 80% of the students will meet or exceed expectations according to the rubric developed for the work products developed in this class been met yet? Not met	71% of students met the expectations according to the rubric.		- Pedagogical Change: More example problems. Extra class period on use of property data and on how to formulate problems in MCHE 469.					

Legend	A - Assessed					
Course/Event	MCHE 484					
Standard/Outcome	ABET-EAC.1.3.1 >	an ability to apply knowled	ge of mathematics, scien	ce, and engineering		
Assessment Measures						
	Assessment Measure	Criterion		Summary	Attachments of the Assessments	Improvement Narratives

Direct - Capstone Assignment	Has the criterion 80% of the students will meet or exceed expectations according to the rubric developed for the work products developed in this class been met yet? Met	93.2% of students met the expectations according to the rubric.	

A - Assessed								
MCHE 484	MCHE 484							
ABET-EAC.1.3.10	BET-EAC.1.3.10 > a knowledge of contemporary issues							
Assessment Measure	Criterion	Summary	Attachments of the Assessments	Improvement Narratives				
Direct - Capstone Assignment	Has the criterion 80% of the students will meet or exceed expectations according to the rubric developed for the work products developed in this class been met yet? Met	95.8% of students met the expectations according to the rubric.						
-	ASSESSMENT Measure Direct - Capstone	ASSESSMENT Measure Direct - Capstone Assignment Criterion Criter	ASSESSMENT Measure Criterion Criterion Summary Summary Direct - Capstone Assignment Assignment Criterion Criterion Capstone Assignment Criterion Criterion Summary Summary	ASSESSMENT Criterion Summary Attachments of the Assessments Direct - Capstone Assignment Assignment Criterion 80% of the students will meet or exceed expectations according to the rubric developed for the work products developed in this class been met yet? Summary Attachments of the Assessments 95.8% of students met the expectations according to the rubric according to the rubric.				

Legend	A - Assessed								
Course/Event	MCHE 484	иСНЕ 484							
Standard/Outcome	ABET-EAC.1.3.11 >	an ability to use the techniques, skills, and r	nodern engineering tools neces	sary for engineering prac	ctice.				
Assessment Measures									
	Assessment Measure	Criterion	Summary	Attachments of the Assessments	Improvement Narratives				

Direct - Capstone Assignment	Has the criterion 80% of the students will meet or exceed expectations according to the rubric developed for the work products developed in this class been met yet? Met	88.4% of students met the expectations according to the rubric.	

Legend	A - Assessed	v - Assessed							
Course/Event	MCHE 484	MCHE 484							
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				
	Direct - Capstone Assignment	Has the criterion 80% of the students will meet or exceed expectations according to the rubric developed for the work products developed in this class been met yet? Met	86.4% of students met the expectations according to the rubric.						

Legend	A - Assessed	A - Assessed								
Course/Event	MCHE 484	иСНЕ 484								
Standard/Outcome	ABET-EAC.1.3.3 >	BET-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				

Direct - Capstone Assignment	Has the criterion 80% of the students will meet or exceed expectations according to the rubric developed for the work products developed in this class been met yet? Met	82.2% of students met the expectations according to the rubric.	

A - Assessed								
MCHE 484	MCHE 484							
ABET-EAC.1.3.4	BET-EAC.1.3.4 > an ability to function on multi-disciplinary teams							
Assessment Measure	Criterion	Summary	Attachments of the Assessments	Improvement Narratives				
Direct - Capstone Assignment	Has the criterion 80% of the students will meet or exceed expectations according to the rubric developed for the work products developed in this class been met yet? Met	83.7% of students met the expectations according to the rubric.						
	ASSESSMENT Measure Direct - Capstone	ASSESSMENT Measure Direct - Capstone Assignment Assignment MCHE 484 Criterion Crite	ASSESSMENT Measure Direct - Capstone Assignment Assignment MCHE 484 ABET-EAC.1.3.4 > an ability to function on multi-disciplinary teams Summary Summary Summary 83.7% of students met the expectations according to the rubric developed for the work products developed in this class been met yet?	ASSESSMENT Measure Criterion Criterion Summary Attachments of the Assessments Direct - Capstone Assignment Assignment Criterion Criterion Criterion Criterion Criterion Summary Attachments of the Assessments Assignment Barrel Summary Attachments of the Assessments Attachments of the Assessments Barrel Barr				

Legend	A - Assessed									
Course/Event	MCHE 484	MCHE 484								
Standard/Outcome	ABET-EAC.1.3.5 >	BET-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				

Direct - Capstone Assignment	Has the criterion 80% of the students will meet or exceed expectations according to the rubric developed for the work products developed in this class been met yet? Met	86.4% of students met the expectations according to the rubric.	

Legend	A - Assessed						
Course/Event	MCHE 484	MCHE 484					
Standard/Outcome	ABET-EAC.1.3.6	> an understanding of professional and ethical respon	sibility				
Assessment Measures							
	Assessment Measure	Criterion	Summary	Attachments of the Assessments	Improvement Narratives		
	Direct - Capstone Assignment	Has the criterion 80% of the students will meet or exceed expectations according to the rubric developed for the work products developed in this class been met yet? Met	91.1% of students met the expectations according to the rubric.				

Legend	A - Assessed				
Course/Event	MCHE 484				_
Standard/Outcome	ABET-EAC.1.3.7 >	an ability to communicate effectively			
Assessment Measures					
	Assessment Measure	Criterion	Summary	Attachments of the Assessments	Improvement Narratives

Direct - Capstone Assignment	Has the criterion 80% of the students will meet or exceed expectations according to the rubric developed for the work products developed in this class been met yet? Met	95.3% of students met the expectations according to the rubric.	

Legend	A - Assessed				
Course/Event	MCHE 484				
Standard/Outcome	ABET-EAC.1.3.8	> the broad education necessary to understand the im	pact of engineering solution	ons in a global and soci	etal context
Assessment Measures					
	Assessment Measure	Criterion	Summary	Attachments of the Assessments	Improvement Narratives
	Direct - Capstone Assignment	Has the criterion 80% of the students will meet or exceed expectations according to the rubric developed for the work products developed in this class been met yet? Met	94.5% of students met the expectations according to the rubric.		

Legend	A - Assessed							
Course/Event	MCHE 484				_			
Standard/Outcome	ABET-EAC.1.3.9 >	BET-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 - Capstone Assignment	Has the criterion 80% of the students will meet or exceed expectations according to the rubric developed for the work products developed in this class been met yet? Met	91.5% of students met the expectations according to the rubric.	

A - Assessed						
MCHE 484	MCHE 484					
MCHE BS.1 Prepare	students to work professionally in the mecha	nical systems area				
Assessment Measure	Criterion	Summary	Attachments of the Assessments	Improvement Narratives		
Direct - Capstone Assignment	Has the criterion 80% of the students will meet or exceed expectations according to the rubric developed been met yet? Met	83.2% of students met the expectations according to the rubric.				
	Assessment Measure Direct - Capstone	MCHE 484 MCHE BS.1 Prepare students to work professionally in the mecha Assessment Measure Direct - Capstone Assignment Has the criterion 80% of the students will meet or exceed expectations according to the rubric developed been met yet?	MCHE 484 MCHE BS.1 Prepare students to work professionally in the mechanical systems area Assessment Measure Direct - Capstone Assignment Has the criterion 80% of the students will meet or exceed expectations according to the rubric developed been met yet? Summary 83.2% of students met the expectations according to the rubric.	MCHE BS.1 Prepare students to work professionally in the mechanical systems area Assessment Measure Direct - Capstone Assignment Has the criterion 80% of the students will meet or exceed expectations according to the rubric developed been met yet? MCHE BS.1 Prepare students to work professionally in the mechanical systems area Attachments of the Assessments 83.2% of students met the expectations according to the rubric.		

Legend	A - Assessed							
Course/Event	Senior Exit Interview	Senior Exit Interviews						
Standard/Outcome	ABET-EAC.1.3.1 > a	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 - Survey - students	Has the criterion 80% of the students surveyed will indicate that their education relative to this outcome met or exceeded their expectations been met yet?		

A - Assessed				
Senior Exit Interview	s			
ABET-EAC.1.3.10 >	a knowledge of contemporary issues			
Assessment Measure	Criterion	Summary	Attachments of the Assessments	Improvement Narratives
Indirect - Survey - students	Has the criterion 80% of the students surveyed will indicate that their education relative to this outcome met or exceeded their expectations been met yet?			
	Senior Exit Interview ABET-EAC.1.3.10 > Assessment Measure Indirect - Survey -	Senior Exit Interviews ABET-EAC.1.3.10 > a knowledge of contemporary issues Assessment Measure Indirect - Survey - students The structure of the students surveyed will indicate that their education relative to this outcome met or	Senior Exit Interviews ABET-EAC.1.3.10 > a knowledge of contemporary issues Assessment Measure Indirect - Survey - students Has the criterion 80% of the students surveyed will indicate that their education relative to this outcome met or	Senior Exit Interviews ABET-EAC.1.3.10 > a knowledge of contemporary issues Assessment Measure Indirect - Survey - Students Has the criterion 80% of the students surveyed will indicate that their education relative to this outcome met or

Legend	A - Assessed				
Course/Event	Senior Exit Interview	/s			
Standard/Outcome	ABET-EAC.1.3.11 >	an ability to use the techniques, skills, and modern engineering	g tools neces	ssary for engineering pra	actice.
Assessment Measures					
	Assessment Measure	Criterion	Summary	Attachments of the Assessments	Improvement Narratives
	Indirect - Survey - students	Has the criterion 80% of the students surveyed will indicate that their education relative to this outcome met or exceeded their expectations been met yet?			

Legend	A - Assessed	A - Assessed				
Course/Event	Senior Exit Interview	Senior Exit Interviews				
Standard/Outcome	ABET-EAC.1.3.2 > a	n ability to design and conduct experiments, as well as to ana	lyze and inte	rpret data		
Assessment Measures						
	Assessment Measure	Criterion	Summary	Attachments of the Assessments	Improvement Narratives	
	Indirect - Survey - students	Has the criterion 80% of the students surveyed will indicate that their education relative to this outcome met or exceeded their expectations been met yet?				

Legend	A - Assessed					
Course/Event	Senior Exit Interview	Senior Exit Interviews				
Standard/Outcome	ABET-EAC.1.3.3 > a	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 - Survey - students	Has the criterion 80% of the students surveyed will indicate that their education relative to this outcome met or exceeded their expectations been met yet?				

Legend	A - Assessed	A - Assessed				
Course/Event	Senior Exit Interview	NS				
Standard/Outcome	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	
	Indirect - Survey - students	Has the criterion The target is that 80% of the students surveyed will indicate that their education relative to this				

A - Assessed	A - Assessed				
Senior Exit Interview	Senior Exit Interviews				
ABET-EAC.1.3.5 > a	ABET-EAC.1.3.5 > an ability to identify, formulate, and solve engineering problems				
Assessment Measure	Criterion	Summary	Attachments of the Assessments	Improvement Narratives	
Indirect - Survey - students	Has the criterion 80% of the students surveyed will indicate that their education relative to this outcome met or exceeded their expectations been met yet?				
	Senior Exit Interview ABET-EAC.1.3.5 > a Assessment Measure Indirect - Survey -	Senior Exit Interviews ABET-EAC.1.3.5 > an ability to identify, formulate, and solve engineering problems Assessment Measure Indirect - Survey - Students Has the criterion 80% of the students surveyed will indicate that their education relative to this outcome met or	Senior Exit Interviews ABET-EAC.1.3.5 > an ability to identify, formulate, and solve engineering problems Assessment Measure Indirect - Survey - students The state of the students surveyed will indicate that their education relative to this outcome met or	Senior Exit Interviews ABET-EAC.1.3.5 > an ability to identify, formulate, and solve engineering problems Assessment Measure Indirect - Survey - students Begin Exit Interviews Criterion Summary Attachments of the Assessments Has the criterion 80% of the students surveyed will indicate that their education relative to this outcome met or	

A - Assessed					
Senior Exit Interview	Senior Exit Interviews				
ABET-EAC.1.3.6 > a	ABET-EAC.1.3.6 > an understanding of professional and ethical responsibility				
Assessment Measure	Criterion	Summary	Attachments of the Assessments	Improvement Narratives	
Indirect - Survey - students	Has the criterion 80% of the students surveyed will indicate that their education relative to this outcome met or exceeded their expectations been met yet?				
	Assessment Measure Indirect - Survey -	Measure Indirect - Survey - students Has the criterion 80% of the students surveyed will indicate that their education relative to this outcome met or	ASSESSMENT Measure Indirect - Survey - students ABET-EAC.1.3.6 > an understanding of professional and ethical responsibility Summary Summary Has the criterion 80% of the students surveyed will indicate that their education relative to this outcome met or	Assessment	

Legend	A - Assessed					
Course/Event	Senior Exit Interview	Senior Exit Interviews				
Standard/Outcome	ABET-EAC.1.3.7 > a	ABET-EAC.1.3.7 > an ability to communicate effectively				
Assessment Measures						
	Assessment Measure	Criterion	Summary	Attachments of the Assessments	Improvement Narratives	
	Indirect - Survey - students	Has the criterion 80% of the students surveyed will indicate that their education relative to this outcome met or exceeded their expectations been met yet?				

Legend	A - Assessed					
Course/Event	Senior Exit Interview	Senior Exit Interviews				
Standard/Outcome	ABET-EAC.1.3.8 > t	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 - Survey - students	Has the criterion 80% of the students surveyed will indicate that their education relative to this outcome met or exceeded their expectations been met yet?				
			l	1		

Legend	A - Assessed					
Course/Event	Senior Exit Interview	Senior Exit Interviews				
Standard/Outcome	ABET-EAC.1.3.9 > a	recognition of the need for, and an ability to engage in life-lor	ng learning			
Assessment Measures						
	Assessment Measure	Criterion	Summary	Attachments of the Assessments	Improvement Narratives	
	Indirect - Survey - students	Has the criterion 80% of the students surveyed will indicate that their education relative to this outcome met or exceeded their expectations been met yet?				
			•			

Legend	A - Assessed
Course/Event	Senior Exit Interviews

Standard/Outcome	MCHE BS.1 Prepare students to work professionally in the mechanical systems area				
Assessment Measures					
	Assessment Measure	Criterion	Summary	Attachments of the Assessments	Improvement Narratives
	Indirect - Exit Interviews	Has the criterion 80% of the students surveyed will indicate that their education relative to this outcome met or exceeded their expectations been met yet?			

Legend	A - Assessed					
Course/Event	Senior Exit Intervi	Senior Exit Interviews				
Standard/Outcome	MCHE BS.2 Prepa	are students to work professionally in thermo-fluid systems area				
Assessment Measures						
	Assessment Measure	Criterion	Summary	Attachments of the Assessments	Improvement Narratives	
	Indirect - Exit Interviews	Has the criterion 80% of the students surveyed will indicate that their education relative to this outcome met or exceeded their expectations been met yet?				

Legend	A - Assessed
Course/Event	Student Advisory Committee
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 - Survey - students	Has the criterion 80% of the students surveyed will indicate that their education relative to this outcome met or exceeded their expectations been met yet?			

Legend	A - Assessed	- Assessed						
Course/Event	Student Advisory Co	tudent Advisory Committee						
Standard/Outcome	ABET-EAC.1.3.10 >	ET-EAC.1.3.10 > a knowledge of contemporary issues						
Assessment Measures								
	Assessment Measure	Criterion	Summary	Attachments of the Assessments	Improvement Narratives			
	Indirect - Survey - students	Has the criterion 80% of the students surveyed will indicate that their education relative to this outcome met or exceeded their expectations been met yet?						
			1	1				

Legend	A - Assessed	A - Assessed					
Course/Event	Student Advisory Co	Student Advisory Committee					
Standard/Outcome	ABET-EAC.1.3.11 >	ABET-EAC.1.3.11 > an ability to use the techniques, skills, and modern engineering tools necessary for engineering practice.					
Assessment Measures							
	Assessment	Criterion	Summary	Attachments of the	Improvement		

	Measure		Assessments	Narratives
	Indirect - Survey - students	Has the criterion 80% of the students surveyed will indicate that their education relative to this outcome met or exceeded their expectations been met yet?		

Legend	A - Assessed	x - Assessed					
Course/Event	Student Advisory Co	Student Advisory Committee					
Standard/Outcome	ABET-EAC.1.3.2 > a	BET-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 - Survey - students	Has the criterion 80% of the students surveyed will indicate that their education relative to this outcome met or exceeded their expectations been met yet?					

Legend	A - Assessed	A - Assessed				
Course/Event	Student Advisory Co	Student Advisory Committee				
Standard/Outcome	ABET-EAC.1.3.3 >	BET-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 - Survey - students	Has the criterion The target is that 80% of the students surveyed will indicate that their education relative to this outcome met or exceeded their expectations. been met yet?		

Legend	A - Assessed	- Assessed					
Course/Event	Student Advisory Co	tudent Advisory Committee					
Standard/Outcome	ABET-EAC.1.3.4 > a	ET-EAC.1.3.4 > an ability to function on multi-disciplinary teams					
Assessment Measures							
	Assessment Measure	Criterion	Summary	Attachments of the Assessments	Improvement Narratives		
	Indirect - Survey - students	Has the criterion 80% of the students surveyed will indicate that their education relative to this outcome met or exceeded their expectations been met yet?					
					•		

Legend	A - Assessed	- Assessed				
Course/Event	Student Advisory Co	ommittee				
Standard/Outcome	ABET-EAC.1.3.5 > a	ET-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 - Survey - students	Has the criterion 80% of the students surveyed will indicate that their education relative to this outcome met or exceeded their expectations been met yet?				

Legend	A - Assessed	A - Assessed					
Course/Event	Student Advisory Co	Student Advisory Committee					
Standard/Outcome	ABET-EAC.1.3.6 > a	BET-EAC.1.3.6 > an understanding of professional and ethical responsibility					
Assessment Measures							
	Assessment Measure	Criterion	Summary	Attachments of the Assessments	Improvement Narratives		
	Indirect - Survey - students	Has the criterion 80% of the students surveyed will indicate that their education relative to this outcome met or exceeded their expectations been met yet?					

Legend	A - Assessed							
Course/Event	Student Advisory Co	Student Advisory Committee						
Standard/Outcome	ABET-EAC.1.3.7 > a	BET-EAC.1.3.7 > an ability to communicate effectively						
Assessment Measures								
	Assessment Measure	Criterion	Summary	Attachments of the Assessments	Improvement Narratives			
	Indirect - Survey - students	Has the criterion 80% of the students surveyed will indicate that their education relative to this outcome met or exceeded their expectations been met yet?						

Legend	A - Assessed				
Course/Event	Student Advisory Co	mmittee			
Standard/Outcome	ABET-EAC.1.3.8 > t	he broad education necessary to understand the impact of en	ineering solu	itions in a global and so	cietal context
Assessment Measures					
	Assessment Measure	Criterion	Summary	Attachments of the Assessments	Improvement Narratives
	Indirect - Survey - students	Has the criterion 80% of the students surveyed will indicate that their education relative to this outcome met or exceeded their expectations been met yet?			

Legend	A - Assessed				
Course/Event	Student Advisory Co	mmittee			
Standard/Outcome	ABET-EAC.1.3.9 > a	recognition of the need for, and an ability to engage in life-lor	ng learning		
Assessment Measures					
	Assessment Measure	Criterion	Summary	Attachments of the Assessments	Improvement Narratives
	Indirect - Survey - students	Has the criterion 80% of the students surveyed will indicate that their education relative to this outcome met or exceeded their expectations been met yet?			
					,

Legend	A - Assessed				
Course/Event	Student Advisory Co	mmittee			
Standard/Outcome	MCHE BS.1 Prepare	e students to work professionally in the mechanical systems ar	ea		
Assessment Measures					
	Assessment Measure	Criterion	Summary	Attachments of the Assessments	Improvement Narratives
	Indirect - Survey - students	Has the criterion 80% of the students surveyed will indicate that their education relative to this outcome met or exceeded their expectations been met yet?			
			•		•

Legend	A - Assessed				
Course/Event	Student Advisory Co	ommittee			
Standard/Outcome	MCHE BS.2 Prepare	e students to work professionally in thermo-fluid systems area			
Assessment Measures					
	Assessment Measure	Criterion	Summary	Attachments of the Assessments	Improvement Narratives
	Indirect - Survey - students	Has the criterion 80% of the students surveyed will indicate that their education relative to this outcome met or exceeded their expectations been met yet?			
			•	•	,

Summary of Improvement Narratives

Improvement Narrative List

Assessment Findings for the Assessment Measure level

Standard/Outcome	ABET-EAC.1.3.2 >	an ability to design and conduct experiments, as well as to analyze and interpret data
Legend	Α	
Course/Event	MCHE 358	
Assessment Measure	Direct - Written As	signment
Assessment Findings	Not met	
Improvement Narrative		
	Improvement Type	Summary
	Pedagogical Change	Increase emphasis on written presentation in MCHE 358. Actions taken include breaking the report into sections so that students address key aspects of the report a week at a time.

Standard/Outcome	ABET-EAC.1.3.1 > a	an ability to apply knowledge of mathematics, science, and engineering
Legend	A	
Course/Event	MCHE 469	
Assessment Measure	Direct - Written Assi	gnment
Assessment Findings	Not met	
Improvement Narrative		
	Improvement	Summary

Туре	
Pedagogical Change	Unforeseen weather events prevented increasing the amount of coverage from the previous year, so this corrective action will continue into the new year. Increase coverage of radiation in MCHE 469.

	andard/Outcome ABET-EAC.1.3.5 > an ability to identify, formulate, and s	Standard/Outcome
	gend A	Legend
	urse/Event MCHE 469	Course/Event
	sessment Measure Direct - Written Assignment	Assessment Measure
	sessment Findings Not met	Assessment Findings
		Improvement Narrative
	Improvement Type Summary	
problems in MCHE	Pedagogical More example problems. Extra of the Change 469.	
proble	Seessment Findings Not met Provement rrative Improvement Type Summary Pedagogical More example problems. Extra of	Assessment Findings Improvement

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 (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) (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

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.

The faculty are going to evaluate the possibility of using the NCEES provided FE exam/ABET Outcome mapping as a future assessment vehicle. Some faculty note that students have a challenge to identify, formulate, and solve engineering problems as measured in assessed courses. Other faculty indicate acceptable performance in their courses. The Curriculum Committee will look at prerequisites for the courses where a problem was identified to see if they need to be modified.

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.

Attachments (optional)

Upload any documents which support the assessment process.