

Outcome K. Graduates will have an ability to use the techniques, skills and modern engineering tools necessary for engineering practice.

Course	Performance indicators
MAE 244, 316, 365, 434, 456, 460	Use of modern computational engineering tools and software or instruments.
MAE 244, 316, 365, 434, 456, 460	Development of skills to use and apply modern computational engineering tools and software or instruments.
MAE 244, 316, 365, 434, 456, 460	Grade distribution.

Tools used: Course assessment by faculty, Alumni survey, Employer survey.

Data Collection: The data are collected every semester based on the course offerings.

Frequency of data collection: The data are collected every time courses are taught.

Data Analysis: The data obtained are analyzed every year.

Closing the loop: This outcome is subject to review every year based on performance criteria and metrics and specific action items are developed, if necessary, to revise the content of the courses. The analyzed data are presented separately to the following groups in meetings.

- a) Feedback to students on all assignments
- b) Feedback to faculty, particular from majors.

Outcome and Performance Indicator		Performance Indicator Rubric				
Outcome K “Graduates will have an ability to use the techniques, skills and modern engineering tools necessary for engineering practice.”		Poor	Fair	Good	Very Good	Excellent
PI1	Use of modern computational engineering tools and software or instruments.	Comp. tools used as black boxes	Comp. tools selected based on needs	Comp. tools used effectively in solution of eng. prob.	Comp. tools used with in depth knowledge of application	Comp. tools used in depth knowledge of application and explained
PI2	Development of skills to use and apply modern computational engineering tools and software or instruments.	Tools used but skills not developed	Some skills developed to use tools	Skill developed to apply tools to solve of eng. prob.	In depth skill development to apply tools to solve eng. Prob.	High level skill dev. to apply tools to solve eng. Prob.
PI3	Grade distribution	1 (F)	2 (D)	3 (C)	4 (B)	5 (A)

Performance Indicator 1. (PI1). “Use of modern computational engineering tools and software or instruments.” The engineering profession often requires practitioners to use modern techniques, tools and equipment to solve engineering problems. The following rubrics are used to assess this indicator:

- **Poor.** This rubric is used when an assignment offering the opportunity to use modern engineering tools, software or instruments produces poor evidence of their use in the solution of an engineering problem.
- **Fair.** This rubric is used when an assignment produces some general evidence of modern engineering tools, software or instruments being used in the solution of an engineering problem.
- **Good.** This rubric is used when an assignment produces clear evidence of specific modern engineering tools, software or instruments being used in the solution of an engineering problem.
- **Very Good.** This rubric is used when an assignment produces strong evidence of specific modern engineering tools, software or instruments being used in the solution of an engineering problem with some evidence of effectiveness of the applications used.
- **Excellent.** This rubric is used when in addition to the previous rubric; the modern engineering tools, software or instruments require in depth knowledge and there is a narrative describing the application.

Performance Indicator 2. (PI2). “Development of skills to use and apply modern computational engineering tools and software or instruments.” The engineering profession often requires practitioners to develop skills to use modern techniques, tools and equipment to solve engineering problems. The following rubrics are used to assess this indicator:

- **Poor.** This rubric is used when an assignment offering the opportunity to develop skills to use and apply modern computational engineering tools, software or instruments produces poor evidence of skills being developed for the solution of an engineering problem.
- **Fair.** This rubric is used when an assignment produces some general evidence of skills developed and used in the solution of an engineering problem.
- **Good.** This rubric is used when an assignment produces clear general evidence of skills developed and used to specifically obtain a solution of an engineering problem.
- **Very Good.** This rubric is used when an assignment produces strong evidence of specific skills being developed to use modern tools, techniques or equipment for the solution of engineering problems with some evidence of effectiveness and depth of skills developed.
- **Excellent.** This rubric is used when in addition to the previous rubric, the assignment produces documentation that describes and illustrates the skills developed and used to find the solution of the engineering problem.

Performance Indicator 3. (PI3). Grade distribution from class on applicable assignments or exercises. A, B, C, D, F

Assessment Tool:

Course Assessment Rubric by Faculty

Aerospace Engineering Program Course-Outcome Matrix (October, 2014)

ABET Outcome		a	b	c	d	e	f	g	h	i	j	k	
Required Course	Credit Hours	Apply Math, Science, and Engr	Design Experiments and Analyze and	Design System, Component, or Process	Multi-disciplinary Teams	Identify, Formulate and Solve Engr Problems	Professional and Ethical Responsibility	Communicate Effectively	Broad Education - Global and Societal	Life-long Learning	Contemporary Issues	Techniques, Skills, and Modern Engr Tools	Number of Outcomes per course
ENGR 101 <i>Engr. Problem Solving 1</i>	3						F	G					2
MAE 215 <i>Intro to Aero Engr</i>	3			C			F						2
MAE 241 <i>Statics</i>	3	A											1
MAE 242 <i>Dynamics</i>	3	A											1
MAE 243 <i>Mech. of Materials</i>	3					E							1
MAE 244 <i>Dynam. & Strength Lab</i>	1		B		B							K	3
MAE 316 <i>Analy. of Engr. Sys.</i>	3	A										K	2
MAE 320 <i>Thermodynamics</i>	3					E			H		J		3
MAE 335 <i>Incomp Aerodynamics</i>	3	A								I	J		3
MAE 336 <i>Comp Aerodynamics</i>	3	A								I			2
MAE 343 <i>Intermed. Mech. Matls.</i>	3	A								I			2
MAE 345 <i>Aerospace Structures</i>	3			C	D	E							3
MAE 365 <i>Flight Dynamics</i>	3	A										K	2
MAE 423 <i>Heat Transfer</i>	3			C					H		J		3
MAE 426 <i>Flt Vehicle Propulsion</i>	3			C		E							2
MAE 434 <i>Exp Aerodynamics</i>	3		B					G				K	3
MAE 456 <i>CAD & Finite Elem. Ana.</i>	3			C		E						K	3
MAE 460 <i>Automatic Controls</i>	3					E						K	2
MAE 475 <i>Flt Vehicle Design</i>	3			C	D		F	G					4
MAE 476 <i>Space Flight</i>	3	A							H		J		3
No. of courses/outcome	58	8	2	6	2	6	3	3	3	3	4	6	
MATH 155 <i>Calculus 1</i>	4	r											
CHEM 115 <i>Fund. of Chemistry</i>	4	r	r				r						
ENGR 199 <i>Orientation to Engr.</i>	1	r		r		r	r	r		r	r		
ENGL 101 <i>Composition and Rhetoric</i>	3							r					
MATH 156 <i>Calculus 2</i>	4	r								r			
ENGR 102 <i>Engr. Problem Solving 2</i>	3	r		r		r							
PHYS 111 <i>General Physics</i>	4	r	r			r		r					
PHYS 112 <i>General Physics</i>	4	r	r			r		r		r			
ENGL 102 <i>Composition & Rhetoric</i>	3							r		r			
MATH 251 <i>Multivariable Calculus</i>	4	r								r			
MATH 261 <i>Elem. Diff. Equations</i>	4	r								r			
IENG 302 <i>Manufacturing Processes</i>	2	r		r	r								
IENG 303 <i>Manufact. Processes Lab</i>	1	r	r	r	r								
EE 221 <i>Intro. to Electrical Engr.</i>	3	r		r	r	r							
EE 222 <i>Intro. to Electrical Engr. Lab</i>	1	r	r	r	r							r	
GEC (21 hours) (Econ)	21							r	r	r	r		
Technical Electives (6 hours)	6								r	r	r	r	

Outcome	ABET Assessment Team members To conduct Assessment of Year 2014	
a	Ismail Celik, Yu Gu, Mario Perhinschi and Pat Browning	Outcome a “Graduates will have an ability to apply knowledge of mathematics, science and engineering.”
b	Marvin Cheng, Alfred Lynam and Marcello Napolitano	Outcome b “Graduates will have an ability to design and conduct experiments, as well as to analyze data.”
c	Ken Means, Terry Musho and Greg Thompson	Outcome c “Graduates will have an ability to design a system, component or process to meet desired needs.”
d	Kostas Sierros, Jim Smith and Scott Wayne	Outcome d “Graduates will have an ability to function on multidisciplinary teams.”
e	Ever Barbero, John Kuhlman, Andrew Nix and Jason Gross	Outcome e “Graduates will have an ability to identify, formulate and solve engineering problems.”
f	Wade Huebsch and David Mebane	Outcome f “Graduates will have an understanding of professional and ethical responsibility.”
g	Salva Akkerman, Cosmin Dumitrescu and Nithi Sivaneri	Outcome g “Graduates will have an ability to communicate effectively.”
h	Victor Mucino and John Christian	Outcome h “Graduates will have the broad education necessary to understand the impact of engineering solutions in a global and societal context”.
i	Xingbo Liu, Ed Sabolsky and Samir Shoukry	Outcome i “Graduates will have a recognition of the need for, and an ability to engage in, life-long learning”.
j	Bruce Kang, Sam Mukdadi and Nick Wu	Outcome j “Graduates will have knowledge of contemporary issues.”
k	Larry Banta, Hailin Li and Xueyan Song	Outcome k “Graduates will have an ability to use the techniques, skills and modern engineering tools necessary for engineering practice.”

AEROSPACE ENGINEERING				K	Outcome K-2014				
<p align="center">Outcome K</p> <p align="center">“Graduates will have an ability to use the techniques, skills and modern engineering tools necessary for engineering practice.”</p>				<p align="center">Assessment Team:</p> <p align="center">Larry Banta, Hailin Li and Xuayan Song</p>					
<p align="center">Performance Indicators:</p> <p>PI1. Use of modern computational engineering tools and software or instruments.</p> <p>PI2. Development of skills to use and apply modern computational engineering tools and software or instruments.</p> <p>PI3. Grade average for the entire class.</p>				<p align="center">Rubrics for Performance Indicators:</p>					
<p>Performance: $P = (PI1 + PI2 + GA) / 3$ P= Performance PI1 = Performance Indicator 1 PI2 = Performance Indicator 2 GA= Average grade of class in assignment* (if GA is based on 100 pt scale, divide by 20; if GA is based on 4 pt scale, multiply by 1.25)</p>									
				Poor (1)	Fair (2)	Good (3)	Very good (4)	Excellent (5)	
				PI1	Comp. tools used as black boxes	Comp. tools selected based on needs	Comp. tools used effectively in solution of eng. prob.	Comp. tools used with in depth knowledge of application	Comp. tools used in depth knowledge of application and explained
				PI2	Tools used but skills not developed	Some skills developed to use tools	Skill developed to apply tools to solve of eng. prob.	In depth skill development to apply tools to solve eng. Prob.	High level skill dev. to apply tools to solve eng. Prob.
Course/Term	PI1	PI2	Grade Average*	Performance	Observations (Score explanation)				
MAE 244									
MAE 316									
MAE 365									
MAE 434									
MAE 456									
MAE 460									
Overall Performance 2014									
Overall Performance 2013									
Follow-up or Corrective Actions:					Responsible Person/Team/Cmte.				
					To: AE CC				
					To: Instructor (by Course)				

					To: Instructor (by Course)				
AEROSPACE ENGINEERING			MAE 244		Outcome K-2014				
Outcome K “Graduates will have an ability to use the techniques, skills and modern engineering tools necessary for engineering practice.”				Assessment Team: Larry Banta, Hailin Li and Xuayan Song					
Performance Indicators: PI1. Use of modern computational engineering tools and software or instruments. PI2. Development of skills to use and apply modern computational engineering tools and software or instruments. PI3. Grade average for the entire class.				Rubrics for Performance Indicators:					
				Poor (1)	Fair (2)	Good (3)	Very good (4)	Excellent (5)	
Performance: $P = (PI1 + PI2 + GA) / 3$ P= Performance PI1 = Performance Indicator 1 PI2 = Performance Indicator 2 GA= Average grade of class in assignment* (if GA is based on 100 pt scale, divide by 20; if GA is based on 4 pt. scale, multiply by 1.25)				PI1	Comp. tools used as black boxes	Comp. tools selected based on needs	Comp. tools used effectively in solution of eng. prob.	Comp. tools used with in depth knowledge of application	Comp. tools used in depth knowledge of application and explained
				PI2	Tools used but skills not developed	Some skills developed to use tools	Skill developed to apply tools to solve of eng. prob.	In depth skill development to apply tools to solve eng. Prob.	High level skill dev. to apply tools to solve eng. Prob.
Course MAE 244	PI1	PI2	Class Grade Ave.	Average	Observations (Score explanation)				
Key Asg. 1 (HW)									
Key Asg. 2 (HW)									
Key Asg. 3 (HW)									
Test 1 (Problem)									
Test 2 (Problem)									
Other (Project)									
Total Average									
Overall Performance 2014									
Overall Performance 2013									
Follow-up or Corrective Actions:						Responsible Person/Team/Cmte.			
						To: AE CC			
						To: Instructor (by Course)			

AEROSPACE ENGINEERING		MAE 316		Outcome K-2014		
Outcome K				Assessment Team: Larry Banta, Hailin Li and Xuayan Song		
“Graduates will have an ability to use the techniques, skills and modern engineering tools necessary for engineering practice.”						
Performance Indicators:				Rubrics for Performance Indicators:		
PI1. Use of modern computational engineering tools and software or instruments. PI2. Development of skills to use and apply modern computational engineering tools and software or instruments. PI3. Grade average for the entire class.				Poor (1)	Fair (2)	
Performance: $P = (PI1 + PI2 + GA) / 3$ P= Performance PI1 = Performance Indicator 1 PI2 = Performance Indicator 2 GA= Average grade of class in assignment* (if GA is based on 100 pt scale, divide by 20; if GA is based on 4 pt. scale, multiply by 1.25)				Good (3)	Very good (4)	
				Excellent (5)		
				Comp. tools used as black boxes	Comp. tools selected based on needs	
				Comp. tools used effectively in solution of eng. prob.	Comp. tools used with in depth knowledge of application	
				Comp. tools used in depth knowledge of application and explained	Comp. tools used in depth knowledge of application and explained	
				Tools used but skills not developed	Some skills developed to use tools	
				Skill developed to apply tools to solve of eng. prob.	In depth skill development to apply tools to solve eng. Prob.	
				High level skill dev. to apply tools to solve eng. Prob.	High level skill dev. to apply tools to solve eng. Prob.	
Course MAE 316	PI1	PI2	Class Grade Ave.	Average	Observations (Score explanation)	
Key Asg. 1 (HW)						
Key Asg. 2 (HW)						
Key Asg. 3 (HW)						
Test 1 (Problem)						
Test 2 (Problem)						
Other (Project)						
Total Average						
Overall Performance 2014						
Overall Performance 2013						
Follow-up or Corrective Actions:					Responsible Person/Team/Cmte.	
					To: AE CC	
					To: Instructor (by Course)	

AEROSPACE ENGINEERING		MAE 365		Outcome K-2014	
Outcome K “Graduates will have an ability to use the techniques, skills and modern engineering tools necessary for engineering practice.”			Assessment Team: Larry Banta, Hailin Li and Xuayan Song		
Performance Indicators: PI1. Use of modern computational engineering tools and software or instruments. PI2. Development of skills to use and apply modern computational engineering tools and software or instruments. PI3. Grade average for the entire class.			Rubrics for Performance Indicators:		
Performance: $P = (PI1 + PI2 + GA) / 3$ P= Performance PI1 = Performance Indicator 1 PI2 = Performance Indicator 2 GA= Average grade of class in assignment* (if GA is based on 100 pt scale, divide by 20; if GA is based on 4 pt. scale, multiply by 1.25)					
	Poor (1)	Fair (2)	Good (3)	Very good (4)	Excellent (5)
PI1	Comp. tools used as black boxes	Comp. tools selected based on needs	Comp. tools used effectively in solution of eng. prob.	Comp. tools used with in depth knowledge of application	Comp. tools used in depth knowledge of application and explained
PI2	Tools used but skills not developed	Some skills developed to use tools	Skill developed to apply tools to solve of eng. prob.	In depth skill development to apply tools to solve eng. Prob.	High level skill dev. to apply tools to solve eng. Prob.
Course MAE 365	PI1	PI2	Class Grade Ave.	Average	Observations (Score explanation)
Key Asg. 1 (HW)					
Key Asg. 2 (HW)					
Key Asg. 3 (HW)					
Test 1 (Problem)					
Test 2 (Problem)					
Other (Project)					
Total Average					
Overall Performance 2014					
Overall Performance 2013					
Follow-up or Corrective Actions:				Responsible Person/Team/Cmte.	
				To: AE CC	
				To: Instructor (by Course)	

AEROSPACE ENGINEERING		MAE 434		Outcome K-2014	
Outcome K “Graduates will have an ability to use the techniques, skills and modern engineering tools necessary for engineering practice.”			Assessment Team: Larry Banta, Hailin Li and Xuayan Song		
Performance Indicators: PI1. Use of modern computational engineering tools and software or instruments. PI2. Development of skills to use and apply modern computational engineering tools and software or instruments. PI3. Grade average for the entire class.			Rubrics for Performance Indicators:		
Performance: $P = (PI1 + PI2 + GA) / 3$ P= Performance PI1 = Performance Indicator 1 PI2 = Performance Indicator 2 GA= Average grade of class in assignment* (if GA is based on 100 pt scale, divide by 20; if GA is based on 4 pt. scale, multiply by 1.25)					
	Poor (1)	Fair (2)	Good (3)	Very good (4)	Excellent (5)
PI1	Comp. tools used as black boxes	Comp. tools selected based on needs	Comp. tools used effectively in solution of eng. prob.	Comp. tools used with in depth knowledge of application	Comp. tools used in depth knowledge of application and explained
PI2	Tools used but skills not developed	Some skills developed to use tools	Skill developed to apply tools to solve of eng. prob.	In depth skill development to apply tools to solve eng. Prob.	High level skill dev. to apply tools to solve eng. Prob.
Course MAE 434	PI1	PI2	Class Grade Ave.	Average	Observations (Score explanation)
Key Asg. 1 (HW)					
Key Asg. 2 (HW)					
Key Asg. 3 (HW)					
Test 1 (Problem)					
Test 2 (Problem)					
Other (Project)					
Total Average					
Overall Performance 2014					
Overall Performance 2013					
Follow-up or Corrective Actions:				Responsible Person/Team/Cmte.	
				To: AE CC	
				To: Instructor (by Course)	

AEROSPACE ENGINEERING		MAE 456		Outcome K-2014	
Outcome K “Graduates will have an ability to use the techniques, skills and modern engineering tools necessary for engineering practice.”			Assessment Team: Larry Banta, Hailin Li and Xuayan Song		
Performance Indicators: PI1. Use of modern computational engineering tools and software or instruments. PI2. Development of skills to use and apply modern computational engineering tools and software or instruments. PI3. Grade average for the entire class.			Rubrics for Performance Indicators:		
Performance: $P = (PI1 + PI2 + GA) / 3$ P= Performance PI1 = Performance Indicator 1 PI2 = Performance Indicator 2 GA= Average grade of class in assignment* (if GA is based on 100 pt scale, divide by 20; if GA is based on 4 pt. scale, multiply by 1.25)					
	Poor (1)	Fair (2)	Good (3)	Very good (4)	Excellent (5)
PI1	Comp. tools used as black boxes	Comp. tools selected based on needs	Comp. tools used effectively in solution of eng. prob.	Comp. tools used with in depth knowledge of application	Comp. tools used in depth knowledge of application and explained
PI2	Tools used but skills not developed	Some skills developed to use tools	Skill developed to apply tools to solve of eng. prob.	In depth skill development to apply tools to solve eng. Prob.	High level skill dev. to apply tools to solve eng. Prob.
Course MAE 456	PI1	PI2	Class Grade Ave.	Average	Observations (Score explanation)
Key Asg. 1 (HW)					
Key Asg. 2 (HW)					
Key Asg. 3 (HW)					
Test 1 (Problem)					
Test 2 (Problem)					
Other (Project)					
Total Average					
Overall Performance 2014					
Overall Performance 2013					
Follow-up or Corrective Actions:				Responsible Person/Team/Cmte.	
				To: AE CC	
				To: Instructor (by Course)	

AEROSPACE ENGINEERING		MAE 460		Outcome K-2014	
Outcome K “Graduates will have an ability to use the techniques, skills and modern engineering tools necessary for engineering practice.”			Assessment Team: Larry Banta, Hailin Li and Xuayan Song		
Performance Indicators: PI1. Use of modern computational engineering tools and software or instruments. PI2. Development of skills to use and apply modern computational engineering tools and software or instruments. PI3. Grade average for the entire class.			Rubrics for Performance Indicators:		
Performance: $P = (PI1 + PI2 + GA) / 3$ P= Performance PI1 = Performance Indicator 1 PI2 = Performance Indicator 2 GA= Average grade of class in assignment* (if GA is based on 100 pt scale, divide by 20; if GA is based on 4 pt. scale, multiply by 1.25)					
	Poor (1)	Fair (2)	Good (3)	Very good (4)	Excellent (5)
PI1	Comp. tools used as black boxes	Comp. tools selected based on needs	Comp. tools used effectively in solution of eng. prob.	Comp. tools used with in depth knowledge of application	Comp. tools used in depth knowledge of application and explained
PI2	Tools used but skills not developed	Some skills developed to use tools	Skill developed to apply tools to solve of eng. prob.	In depth skill development to apply tools to solve eng. Prob.	High level skill dev. to apply tools to solve eng. Prob.
Course MAE 460	PI1	PI2	Class Grade Ave.	Average	Observations (Score explanation)
Key Asg. 1 (HW)					
Key Asg. 2 (HW)					
Key Asg. 3 (HW)					
Test 1 (Problem)					
Test 2 (Problem)					
Other (Project)					
Total Average					
Overall Performance 2014					
Overall Performance 2013					
Follow-up or Corrective Actions:				Responsible Person/Team/Cmte.	
				To: AE CC	
				To: Instructor (by Course)	

Assessment Tool:

Alumni Survey

MAE Alumni Survey of Educational Success

Dear Alum, in an effort to improve the quality of our Educational Programs in Mechanical and Aerospace Engineering, we would like to request few minutes of your time to help us assess the level of attainment of our Educational Objectives and Learning Outcomes that our graduates exhibit in the development of their professional activity. This survey will serve as a tool for the assessment of our Program and is not intended to be used to evaluate you individually.

Please tell us your year of graduation and the degree that you earned.

This is a required question

In my work, I am able to apply knowledge of math, science and engineering effectively.

- Strongly Agree
- Agree
- Neutral
- Disagree
- Strongly Disagree
- Not Applicable

This is a required question

In my work, I am able to design and conduct experiments, and analyze data.

- Strongly Agree
- Agree
- Neutral
- Disagree
- Strongly Disagree
- Not Applicable

This is a required question

In my work, I am able to design a system, component or process to meet desired needs and constraints.

- Strongly Agree
- Agree
- Neutral
- Disagree
- Strongly Disagree
- Not Applicable

This is a required question

In my work, I am able to function productively on multidisciplinary teams.

- Strongly Agree
- Agree
- Neutral

- Disagree
- Strongly Disagree
- Not Applicable

This is a required question

In my work, I am able to identify, formulate and solve engineering problems.

- Strongly Agree
- Agree
- Neutral
- Disagree
- Strongly Disagree
- Not Applicable

This is a required question

In my work, I have a good understanding of professional and ethical responsibility.

- Strongly Agree
- Agree
- Neutral
- Disagree
- Strongly Disagree
- Not Applicable

This is a required question

In my work, I am able to communicate effectively, both verbally and in writing.

- Strongly Agree
- Agree
- Neutral
- Disagree
- Strongly Disagree
- Not Applicable

This is a required question

In my work, I understand the impact of engineering solutions in a global and societal context.

- Strongly Agree
- Agree
- Neutral
- Disagree
- Strongly Disagree
- Not Applicable

This is a required question

In my work, I recognize the need for, and engage in, life-long learning.

- Strongly Agree
- Agree
- Neutral
- Disagree
- Strongly Disagree
- Not Applicable

This is a required question

In my work, I am aware of and appreciate contemporary engineering issues.

- Strongly Agree
- Agree
- Neutral
- Disagree
- Strongly Disagree
- Not Applicable

This is a required question

In my work, I am proficient in the use of techniques, skills and modern tools necessary for engineering practice.

- Strongly Agree
- Agree
- Neutral
- Disagree
- Strongly Disagree
- Not Applicable

This is a required question

In my work, I am prepared to meet the varying demands of the workforce in the technological arena.

- Strongly Agree
- Agree
- Neutral
- Disagree
- Strongly Disagree
- Not Applicable

This is a required question

Please add comments below to clarify or add to any of your answers above, or to provide general comments about the level of satisfaction you have with the way your education in the MAE department has prepared you for your career.

This is a required question

In general, How would you rate yourself in the following categories

	Poor	Fair	Good	Very Good	Excellent
Your proficiency in your field	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Your drive to learn on your own.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Your preparedness to meet the demands of the job-market	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Please enter one response per row

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Assessment Tool:

Employer Survey

Employer Survey of MAE Graduates

Dear Employer, in an effort to improve the quality of our Educational Programs in Mechanical and Aerospace Engineering, we would like to request few minutes of your time to help us assess the level of attainment of our Educational Objectives and Learning Outcomes that our graduates exhibit in the development of their professional activity in your company. This survey will serve as a tool for the assessment of our Program and is not intended to be used to evaluate the graduate's work for you or in your company.

Please tell us how many WVU MAE graduates you employ, and for how long.

This is a required question

WVU MAE graduates in my employ are able to apply knowledge of math, science and engineering effectively.

- Strongly Agree
- Agree
- Neutral
- Disagree
- Strongly Disagree
- Not Applicable

This is a required question

WVU MAE graduates in my employ are able to design and conduct experiments, and analyze data.

- Strongly Agree
- Agree
- Neutral
- Disagree
- Strongly Disagree
- Not Applicable

This is a required question

WVU MAE graduates in my employ are able to design a system, component or process to meet desired needs and constraints.

- Strongly Agree
- Agree
- Neutral
- Disagree
- Strongly Disagree
- Not Applicable

This is a required question

WVU MAE graduates in my employ are able to function productively on multidisciplinary teams.

- Strongly Agree
- Agree

- Neutral
- Disagree
- Strongly Disagree
- Not Applicable

This is a required question

WVU MAE graduates in my employ are able to identify, formulate and solve engineering problems.

- Strongly Agree
- Agree
- Neutral
- Disagree
- Strongly Disagree
- Not Applicable

This is a required question

WVU MAE graduates in my employ have a good understanding of professional and ethical responsibility.

- Strongly Agree
- Agree
- Neutral
- Disagree
- Strongly Disagree
- Not Applicable

This is a required question

WVU MAE graduates in my employ are able to communicate effectively, both verbally and in writing.

- Strongly Agree
- Agree
- Neutral
- Disagree
- Strongly Disagree
- Not Applicable

This is a required question

WVU MAE graduates in my employ understand the impact of engineering solutions in a global and societal context.

- Strongly Agree
- Agree
- Neutral
- Disagree
- Strongly Disagree
- Not Applicable

This is a required question

WVU MAE graduates in my employ recognize the need for, and engage in, life-long learning.

- Strongly Agree
- Agree
- Neutral

- Disagree
- Strongly Disagree
- Not Applicable

This is a required question

WVU MAE graduates in my employ are aware of and appreciate contemporary engineering issues.

- Strongly Agree
- Agree
- Neutral
- Disagree
- Strongly Disagree
- Not Applicable

This is a required question

WVU MAE graduates in my employ are proficient in the use of techniques, skills and modern tools necessary for engineering practice.

- Strongly Agree
- Agree
- Neutral
- Disagree
- Strongly Disagree
- Not Applicable

This is a required question

WVU MAE graduates in my employ are prepared to meet the varying demands of the workforce in the technological arena.

- Strongly Agree
- Agree
- Neutral
- Disagree
- Strongly Disagree
- Not Applicable

This is a required question

Please add comments below to clarify or add to any of your answers above, or to provide general comments about the level of satisfaction you have with graduates of the MAE department at WVU.

This is a required question

In general, How would you rate WVU MAE graduates in the following categories

	Poor	Fair	Good	Very Good	Excellent
Proficiency in his/her field	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Drive to learn on his/her own	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Preparedness to meet the demands of the job market	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Please enter one response per row

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