

Outcome I. Graduates will have a recognition of the need for, and an ability to engage in, life-long learning.

| Course | Performance indicators |
|-------------------|---|
| MAE 335, 336, 343 | Awareness and understanding of long life learning implications. |
| MAE 335, 336, 343 | Development of self-taught skills. |
| MAE 335, 336, 343 | 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 I “Graduates will have a recognition of the need for, and an ability to engage in, life-long learning”. | | Poor | Fair | Good | Very Good | Excellent |
| PI1 | Awareness and understanding of long life learning implications | No notion of life-long-learning (LLL) | LLL barely Mentioned | LLL Addressed in context | LLL Addressed in context and illustrated | LLL Addressed, illustrated & discussed |
| PI2 | Development of self-taught skills | No notion self-taught skills | self-taught skills mentioned | self-taught skills used | self-taught skills used and illustrated | self-taught skills used, illustrated & explained |
| PI3 | Grade distribution | 1 (F) | 2 (D) | 3 (C) | 4 (B) | 5 (A) |
| <p>Performance Indicator 1. (PI1). “Awareness and understanding of long life learning implications.” Engineering is a profession which requires continuous self-education and lifelong learning to stay current. The following rubrics are used to assess this indicator:</p> <ul style="list-style-type: none"> - Poor. This rubric is used when an assignment offers no evidence addressing the issue of self-learning or creative use of resources. - Fair. This rubric is used when an assignment offers some evidence of self-learning and some creative use of resources. - Good. This rubric is used when an assignment offers clear evidence of self-learning and creative use of resources. - Very Good. This rubric is used when an assignment offers clear evidence of self-learning and creative use of resources that leads to solutions. - Excellent. This rubric is used when in addition to the previous rubric, the self-learned material is illustrated and resources used are listed and documented. <p>Performance Indicator 2. (PI2). “Development of self-taught skills.” Engineering is a profession which often requires self-taught skills to formulate and solve engineering problems. The following rubrics are used to assess this indicator:</p> <ul style="list-style-type: none"> - Poor. This rubric is used when an assignment offers no evidence of self-taught skills used in the formulation and/or solution of engineering problems. - Fair. This rubric is used when an assignment offers some evidence self-taught skills which are referenced in the formulation of engineering problems or in their solution. - Good. This rubric is used when an assignment offers evidence of self-taught skills which are then used in the formulation of engineering problems and applied in their solution. - Very Good. This rubric is used when an assignment offers clear evidence of self-taught skills which are used in the formulation of engineering problems, applied in their solution and are illustrated. | | | | | | |

- **Excellent.** This rubric is used when in addition to the previous rubric; the self-taught skills are illustrated, explained and documented.

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 | | <i>a</i> | <i>b</i> | <i>c</i> | <i>d</i> | <i>e</i> | <i>f</i> | <i>g</i> | <i>h</i> | <i>i</i> | <i>j</i> | <i>k</i> | |
|--|----|--------------|-------------------------------|------------------------------------|---|------------------------------------|--------------------------|-------------------------|---------------------------------------|--------------------|---------------------|-------------------------------------|-------------------------------|
| Required Course | | Credit Hours | Apply Math, Science, and Engr | Design Experiments and Analyze and | Design System, Component, or Multi-disciplinary Teams | Identify, Formulate and Solve Engr | Professional and Ethical | Communicate Effectively | Broad Education - Global and Societal | Life-long Learning | Contemporary Issues | Techniques, Skills, and Modern Engr | Number of Outcomes per course |
| K = Key Course | | | | | | | | | | | | | |
| r = related 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 | | D | | | | | | | 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 | | | | | | r | |
| GEC (21 hours) (Econ) | 21 | | | | | | | r | r | r | r | | |
| Technical Electives (6 hours) | 6 | | | | | | | r | 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 | | I | Outcome I-2014 | | | | | | | | | |
|---|-----|--|--|---|--|--|---|--|--|--|--|--|
| Outcome I | | Assessment Team: Xingbo Liu, Ed Sabolsky and Saminr Shoukry | | | | | | | | | | |
| “Graduates will have a recognition of the need for, and an ability to engage in, life-long learning”. | | Performance Indicators: | | | | | | | | | | |
| PI1. Awareness and understanding of long life learning implications PI2. Development of a self-taught skills 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) | | PI1 | Poor (1) | Fair (2) | Good (3) | Very good (4) | Excellent (5) | | | | | |
| | | PI2 | No notion of life-long-learning (LLL) No evidence of self-taught skills | LLL barely Mentioned, some creative use of resources Some evidence of self-taught skills | LLL Addressed in context with some creative use of resources Self-taught skills used in problem solving | LLL Addressed in context and illustrated, creative use of resources Self-taught skills used and clearly illustrated | LLL Addressed, illustrated and discussed. creative use of resources Self-taught skills used and clearly illustrated and documented | | | | | |
| Course/Term | PI1 | PI2 | Grade Average* | Performance | Observations (Score explanation) | | | | | | | |
| MAE 335 | | | | | | | | | | | | |
| MAE 336 | | | | | | | | | | | | |
| MAE 343 | | | | | | | | | | | | |
| 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) | | | | | | | |
| | | | | | To: Instructor (by Course) | | | | | | | |

| AEROSPACE ENGINEERING | | MAE 335 | | Outcome I-2014 | | | | | | | | |
|--|-----|---------|---------------------|---|---|---|--|--|---|---|--|--|
| Outcome I “Graduates will have a recognition of the need for, and an ability to engage in, life-long learning”. | | | | Assessment Team: Xingbo Liu, Ed Sabolsky and Saminr Shoukry | | | | | | | | |
| Performance Indicators: PI1. Awareness and understanding of long life learning (LLL) implications PI2. Development of a self-taught skills 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) | | | | PI1 | Poor (1) | Fair (2) | Good (3) | Very good (4) | Excellent (5) | LLL Addressed, illustrated and discussed. creative use of resources | | |
| | | | | PI2 | No notion of life-long- learning (LLL) | LLL Addressed in context with some creative use of resources | LLL Addressed in context and illustrated, creative use of resources | LLL Addressed in context and illustrated, creative use of resources | LLL Addressed, illustrated and discussed. creative use of resources | Self-taught skills used and clearly illustrated and documented | | |
| Course MAE 335 | 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 336 | | Outcome I-2014 | | | |
|--|-----|---|---------------------------------------|--|--|---|---|
| Outcome I “Graduates will have a recognition of the need for, and an ability to engage in, life-long learning”. | | Assessment Team: Xingbo Liu, Ed Sabolsky and Saminr Shoukry | | | | | |
| Performance Indicators: PI1. Awareness and understanding of long life learning (LLL) implications PI2. Development of a self-taught skills 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) | | PI1 | Poor (1) | Fair (2) | Good (3) | Very good (4) | Excellent (5) |
| | | PI2 | No notion of life-long-learning (LLL) | LLL barely Mentioned, some creative use of resources | LLL Addressed in context with some creative use of resources | LLL Addressed in context and illustrated, creative use of resources | LLL Addressed, illustrated and discussed. creative use of resources |
| Course MAE 336 | 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 343 | | Outcome I-2014 | | | | | | | |
|--|-----|---------|------------------|---|---------------------------------------|--|--|---|---|--|--|
| Outcome I "Graduates will have a recognition of the need for, and an ability to engage in, life-long learning". | | | | Assessment Team: Xingbo Liu, Ed Sabolsky and Saminr Shoukry | | | | | | | |
| Performance Indicators: PI1. Awareness and understanding of long life learning (LLL) implications PI2. Development of a self-taught skills 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) | | | | |
| | | | | PI1 | No notion of life-long-learning (LLL) | LLL barely Mentioned, some creative use of resources | LLL Addressed in context with some creative use of resources | LLL Addressed in context and illustrated, creative use of resources | LLL Addressed, illustrated and discussed. creative use of resources | | |
| | | | | PI2 | No evidence of self-taught skills | Some evidence of self-taught skills | Self-taught skills used in problem solving | Self-taught skills used and illustrated | Self-taught skills used and clearly illustrated and documented | | |
| Course MAE 343 | 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"/> |
| Your drive to learn on your own. | <input type="radio"/> |
| Your preparedness to meet the demands of the job-market | <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"/> |
| Drive to learn on his/her own | <input type="radio"/> |
| Preparedness to meet the demands of the job market | <input type="radio"/> |

Please enter one response per row

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