

2016-2017 Assessment Cycle

Assessment Plan

Measures

ABET (a-k)

Outcome

PC-ABET-a

An ability to apply knowledge of mathematics, science, and engineering.

- ▼ **Measure:** Evaluation of Student Work in CEC 450
Program level; Direct - Exam


Details/Description: Evaluation of results of course exam problem.

Criterion for Success: At least 70% of students demonstrate Satisfactory or Exemplary performance, and no more than 10% demonstrate Unsatisfactory performance collectively on all rubric performance criteria.

Timeframe of Data Collection: Fall 2016

Key/Responsible Personnel: Ed Post

Supporting Attachments:

 Outcome a.docx (Word Document (Open XML))

- ▼ **Measure:** Evaluation of Student Work in EE 223
Course level; Direct - Exam


Details/Description: Evaluation of results of problem on course final exam.

Criterion for Success: At least 50% of students demonstrate Satisfactory or Exemplary performance, and no more than 10% demonstrate Unsatisfactory performance collectively on all rubric performance criteria.

Timeframe of Data Collection: Spring 2017

Key/Responsible Personnel: Ed Post

Supporting Attachments:

 Outcome a.docx (Word Document (Open XML))

- ▼ **Measure:** Evaluation of Student Work in MA 242
Program level; Direct - Exam


Details/Description: Evaluation of results of problem on course final exam.

Criterion for Success: At least 50% of students demonstrate Satisfactory or Exemplary performance, and no more than 10% demonstrate Unsatisfactory performance collectively on all rubric performance criteria.

Timeframe of Data Collection: Spring 2017

Key/Responsible Personnel: Ed Post

Supporting Attachments:

 Outcome a.docx (Word Document (Open XML))

- ▼ **Measure:** Online Course Evaluation in CEC 450
Program level; Indirect - Survey

Details/Description: End of semester online course evaluation.

Criterion for Success: At least 70% respond either "Strongly Agree" or "Agree" with the statement 'My experiences in this course have improved my ability to apply knowledge of mathematics, science, and engineering.'

Timeframe of Data Collection: Fall 2016

Key/Responsible Personnel: Ed Post

▼ **Measure:** Online Course Evaluation in EE 223
Program level; Indirect - Survey

Details/Description: End of semester online course evaluation.

Criterion for Success: At least 70% respond either "Strongly Agree" or "Agree" with the statement 'My experiences in this course have improved my ability to apply knowledge of mathematics, science, and engineering .'

Timeframe of Data Collection: Spring 2017

Key/Responsible Personnel: Ed Post

▼ **Measure:** Online Course Evaluation in MA 242
Program level; Indirect - Survey

Details/Description: End of semester online course evaluation.

Criterion for Success: At least 70% respond either "Strongly Agree" or "Agree" with the statement 'My experiences in this course have improved my ability to apply knowledge of mathematics, science, and engineering .'

Timeframe of Data Collection: Spring 2017

Key/Responsible Personnel: Ed Post

PC-ABET-c

An ability to design a system, component, or process to meet desired needs within realistic constraints such as economic, environmental, social, political, ethical, health and safety, manufacturability, and sustainability.

▼ **Measure:** Evaluation of Student Work in CEC 460
Program level; Direct - Student Artifact


Details/Description: Evaluation of the results of student project.

Criterion for Success: At least 50% of students demonstrate Satisfactory or Exemplary performance, and no more than 10% demonstrate Unsatisfactory performance collectively on all rubric performance criteria.

Timeframe of Data Collection: Spring 2017

Key/Responsible Personnel: Ed Post

Supporting Attachments:

 Outcome c.docx (Word Document (Open XML))

▼ **Measure:** Online Course Evaluation in CEC 460
Program level; Indirect - Survey

Details/Description: End of semester online course evaluation.

Criterion for Success: At least 70% of student responses either "strongly agree" or "agree" with the statement "My experiences in this course have improved my ability to design a system, component, or process to meet desired needs within realistic constraints such as economic, environmental, social, political, ethical, health and safety, manufacturability, and sustainability."

Timeframe of Data Collection: Spring 2017

Key/Responsible Personnel: Ed Post

▼ **Measure:** Spring 2017 Graduating Student Survey
Program level; Indirect - Survey

Details/Description: Survey which asks the question: To what extent has your experience at ERAU contributed to your development of the following skills or knowledge? "an ability to design a system, component, or process to meet desired needs within realistic constraints such as economic, environmental, social, political, ethical, health and safety, manufacturability, and sustainability."

Criterion for Success: At least 70% of students respond with "Very Much" or "Quite a Bit" and none respond with "Not at all."

Timeframe of Data Collection: Spring 2017

Key/Responsible Personnel: Ed Post

PC-ABET-g

An ability to communicate effectively.

▼ **Measure:** Evaluation of Student Work in CEC 420
Program level; Direct - Student Artifact


Details/Description: Evaluation of student written and oral presentation of their design.

Criterion for Success: At least 70% of students demonstrate Satisfactory or Exemplary performance, and no more than 10% demonstrate Unsatisfactory performance collectively on all rubric performance criteria.

Timeframe of Data Collection: Fall 2016

Key/Responsible Personnel: Ed Post

Supporting Attachments:

 Outcome g.docx (Word Document (Open XML))

▼ **Measure:** Evaluation of Student Work in COM 221
Direct - Student Artifact


Details/Description: Student performance on final research proposal.

Criterion for Success: At least 50% of students demonstrate Satisfactory or Exemplary performance, and no more than 10% demonstrate Unsatisfactory performance collectively on all rubric performance criteria.

Timeframe of Data Collection: Spring 2017

Key/Responsible Personnel: Ed Post

Supporting Attachments:

 Outcome g.docx (Word Document (Open XML))

▼ **Measure:** Online Course Evaluation in CEC 420
Program level; Indirect - Survey

Details/Description: End of semester online course evaluation.

Criterion for Success: At least 70% respond either "Strongly Agree" or "Agree" with the statement 'My experiences in this course have improved my ability to communicate effectively .'

Timeframe of Data Collection: Fall 2016

Key/Responsible Personnel: Ed Post

▼ **Measure:** Online Course Evaluation in COM 221
Program level; Indirect - Survey

Details/Description: End of semester online course evaluation.

Criterion for Success: At least 70% respond either "Strongly Agree" or "Agree" with the statement 'My experiences in this course have improved my ability to communicate effectively .'

Timeframe of Data Collection: Spring 2017

Key/Responsible Personnel: Ed Post

PC-ABET-i

A recognition of the need for, and an ability to engage in life-long learning.

▼ **Measure:** Evaluation of Student Work in CEC 421
Program level; Direct - Student Artifact


Details/Description: Evaluation of individual student technical reports.

Criterion for Success: At least 50% of students demonstrate Satisfactory or Exemplary performance, and no more than 10% demonstrate Unsatisfactory performance collectively on all rubric performance criteria.

Timeframe of Data Collection: Spring 2017

Key/Responsible Personnel: Ed Post

Supporting Attachments:

 Outcome i.docx (Word Document (Open XML))

▼ **Measure:** Evaluation of Student Work in HU 330
Program level; Direct - Exam


Details/Description: Evaluation of results of problem on course final exam.

Criterion for Success: At least 50% of students demonstrate Satisfactory or Exemplary performance, and no more than 10% demonstrate Unsatisfactory performance collectively on all rubric performance criteria.

Timeframe of Data Collection: Spring 2017

Key/Responsible Personnel: Ed Post

Supporting Attachments:

 Outcome i.docx (Word Document (Open XML))

▼ **Measure:** Online Course Evaluation in CEC 421
Program level; Indirect - Survey

Details/Description: End of semester online course evaluation.

Criterion for Success: At least 70% respond either "Strongly Agree" or "Agree" with the statement "This course has improved my recognition of the need for, and ability to engage in lifelong learning."

Timeframe of Data Collection: Spring 2017

Key/Responsible Personnel: Ed Post

▼ **Measure:** Online Course Evaluation in HU 330
Program level; Indirect - Survey

Details/Description: End of semester online course evaluation.

Criterion for Success: At least 70% respond either "Strongly Agree" or "Agree" with the statement "This course has improved my recognition of the need for, and ability to engage in lifelong learning."

Timeframe of Data Collection: Spring 2017

Key/Responsible Personnel: Ed Post

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