

2019-2020 Assessment Cycle

## Assessment Plan

### Measures

#### PC-ABET-2018

##### Outcome

##### **Outcome: PC-ABET-2**

An ability to apply engineering design to produce solutions that meet specified needs with consideration of public health, safety, and welfare, as well as global, cultural, social, environmental, and economic factors.

##### ▼ **Measure:** Evaluation of Student Work in EE 302 *Program level Direct - Student Artifact*

Details/Description: Evaluation of student final design 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: Fall 2019

Key/Responsible

Ed Post/Akhan Almagambetov

Personnel:

Supporting Attachments:

 Outcome 2.pdf (Adobe Acrobat Document)

##### ▼ **Measure:** Evaluation of Student Work in EE 420 *Program level Direct - Student Artifact*


Details/Description: Evaluation of student written preliminary design proposal

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 2019

Key/Responsible Personnel: Ed Post

Supporting Attachments:

 Outcome 2.pdf (Adobe Acrobat Document)

▼ **Measure:** Evaluation of Student Work in EGR 101  
*Program level Direct - Student Artifact*


Details/Description: Evaluation of student's final report

Criterion for Success: At least 30% 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 2019

Key/Responsible Personnel: Ed Post/Matt Pavlina

Supporting Attachments:

 Outcome 2.pdf (Adobe Acrobat Document)

▼ **Measure:** Online Course Evaluation in EE 302  
*Program level Indirect - Survey*

Details/Description: End of semester online course evaluation.

Criterion for Success: At least 70% respond either "Strongly Agree" or "Agree" to the statement "My experiences in this course have improved my ability to apply engineering design to produce solutions that meet specified needs with consideration of public health, safety, and welfare, as well as global, cultural, social, environmental, and economic factors."


Timeframe of Data Collection: Fall 2019

Collection:

Key/Responsible: Ed Post

Personnel:

Supporting Attachments:

 PC\_BSEE\_PO02 EOC (Adobe Acrobat Document)

▼ **Measure:** Online Course Evaluation in EE 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" to the statement "My experiences in this course have improved my ability to apply engineering design to produce solutions that meet specified needs with consideration of public health, safety, and welfare, as well as global, cultural, social, environmental, and economic factors."


Timeframe of Data Collection: Fall 2019

Collection:

Key/Responsible: Ed Post

Personnel:

Supporting Attachments:


 PC\_BSEE\_PO02 EOC (Adobe Acrobat Document)

▼ **Measure:** Online Course Evaluation in EGR 101

*Program level Indirect - Survey*

Details/Description:	End of semester online course evaluation.
Criterion for Success:	At least 70% respond either "Strongly Agree" or "Agree" to the statement "My experiences in this course have improved my ability to apply engineering design to produce solutions that meet specified needs with consideration of public health, safety, and welfare, as well as global, cultural, social, environmental, and economic factors."
Timeframe of Data Collection:	Fall 2019
Key/Responsible Personnel:	Ed Post

Supporting Attachments:

 PC\_BSEE\_PO02 EOC (Adobe Acrobat Document)

**Outcome: PC-ABET-4**


An ability to recognize ethical and professional responsibilities in engineering situations and make informed judgments, which must consider the impact of engineering solutions in global, economic, environmental, and societal contexts.

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

Details/Description:	Evaluation of student written report
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 2019

Key/Responsible Personnel: Ed Post

Supporting Attachments:

 Outcome 4.pdf (Adobe Acrobat Document)

▼ **Measure:** Evaluation of Student Work in EGR 101  
*Program level Direct - Student Artifact*


Details/Description: Evaluation of student's final report and Critical Design Review presentation

Criterion for Success: At least 30% 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 2019

Key/Responsible Personnel: Ed Post/Matt Pavlina

Supporting Attachments:

 Outcome 4.pdf (Adobe Acrobat Document)

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

Details/Description: Evaluation of question on 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 2020

Key/Responsible Personnel: Ed Post/Matt Haslam

Personnel:


Supporting Attachments:

 Outcome 4.pdf (Adobe Acrobat Document)

▼ **Measure:** Online Course Evaluation in EE 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" to the statement "My experiences in this course have improved my ability to recognize ethical and professional responsibilities in engineering situations and make informed judgments, which must consider the impact of engineering solutions in global, economic, environmental, and societal contexts."
Timeframe of Data Collection:	Fall 2019
Key/Responsible Personnel:	Ed Post

Supporting Attachments:

 PC\_BSEE\_PO04 EOC (Adobe Acrobat Document)


▼ **Measure:** Online Course Evaluation in EGR 101  
*Program level Indirect - Survey*

Details/Description:	End of semester online course evaluation.
Criterion for Success:	At least 70% respond either "Strongly Agree" or "Agree" to the statement "My experiences in this course have improved my ability to recognize ethical and professional responsibilities in engineering situations and make informed

judgments, which must consider the impact of engineering solutions in global, economic, environmental, and societal contexts."

Timeframe of Data Collection: Fall 2019  
Key/Responsible Personnel: Ed Post

Supporting Attachments:


 PC\_BSEE\_PO04 EOC (Adobe Acrobat Document)

▼ **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" to the statement "My experiences in this course have improved my ability to recognize ethical and professional responsibilities in engineering situations and make informed judgments, which must consider the impact of engineering solutions in global, economic, environmental, and societal contexts."

Timeframe of Data Collection: Spring 2020  
Key/Responsible Personnel: Ed Post

Supporting Attachments:

 PC\_BSEE\_PO04 EOC (Adobe Acrobat Document)

