

- a. an ability to apply knowledge of mathematics, science, and engineering.

Outcome b

Progress: Completed

Define Goal:

Intended Outcomes / Objectives:

Student Learning Outcomes:

The program has 11 outcomes (a-k). The outcomes are subject to review and modification at any time upon approval by the ECE faculty.

TTU BSEE graduates will be able to demonstrate that they have:

- b. an ability to design and conduct experiments, as well as to analyze and interpret data.

Outcome c

Progress: Completed

Intended Outcomes / Objectives:

Student Learning Outcomes:

The program has 11 outcomes (a-k). The outcomes are subject to review and modification at any time upon approval by the ECE faculty.

TTU BSEE graduates will be able to demonstrate that they have:

- 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.

Outcome d

Progress: Completed

Intended Outcomes / Objectives:

Student Learning Outcomes:

The program has 11 outcomes (a-k). The outcomes are subject to review and modification at any time upon approval by the ECE faculty.

TTU BSEE graduates will be able to demonstrate that they have:

- d. an ability to function on multi-disciplinary teams.

Outcome e

Progress: Completed

Intended Outcomes / Objectives:

Student Learning Outcomes:

The program has 11 outcomes (a-k). The outcomes are subject to review and modification at any time upon approval by the ECE faculty.

TTU BSEE graduates will be able to demonstrate that they have:

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

Outcome j

Progress: Completed

Intended Outcomes / Objectives:

Student Learning Outcomes:

The program has 11 outcomes (a-k). The outcomes are subject to review and modification at any time upon approval by the ECE faculty.

TTU BSEE graduates will be able to demonstrate that they have:

j. a knowledge of contemporary issues. an ability to use the techniques, skills, and modern engineering tools necessary for engineering practice.

Outcome k

Progress: Completed

Intended Outcomes / Objectives:

Student Learning Outcomes:

The program has 11 outcomes (a-k). The outcomes are subject to review and modification at any time upon approval by the ECE faculty.

TTU BSEE graduates will be able to demonstrate that they have:

k. an ability to use the techniques, skills, and modern engineering tools necessary for engineering practice.

Assessment Mapping: Course Contributions to Student Outcomes

Goal/ Outcome/ Objective: Student Outcomes a-k

Frequency of Assessment: Yearly

Rationale:

See attached mapping of Course Outcomes to Student Outcomes

Attached Files

[Mapping Matrix](#)

Capstone Design Project

Goal/ Outcome/ Objective: Student Outcomes c, d, e, f, and g

Type of Tool: Capstone Project

Frequency of Assessment: Each Semester

Rationale:

CAPSTONE is the culminating two semester course sequence in EE and draws on the technical skills developed through the curriculum. The evaluations ask questions that pertain directly or indirectly to the Student Outcomes. A numerical score from 0-5 is solicited. A target score greater than or equal to 3.5 is construed to indicate that each outcome is being met satisfactorily. They also ask for other general comments.

Faculty Course Assessment

Goal/ Outcome/ Objective: Student Outcomes: a - k

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for Fall 2016 – Spring 2017

1 - Timeline:

These results are from assessments of the Fall 2016 ~ Spring 2017 academic year. An assessment report was created and presented to the ECE faculty during the Fall 2017 semester.

For Summary, please see attached file.

Attachments: [Attached Files](#)

