Assessment: Assessment Plan

Degree Program - ENG - Construction Engineering (BS)

CIP Code: 14.3301.00
Disciplinary Accrediting Body: EAC of ABET
Next Accrediting Agency Review: 12-13
Degree Program Coordinator: Ali Nejat
Degree Program Coordinator Email: ali.nejat@ttu.edu
Degree Program Coordinator Phone: +18068344065
Degree Program Coordinator Mail Stop: 3107
Assessment Coordinator: David L. Ernst
Modality: Face-to-Face

Student Learning Outcome: ABET Criterion 3.1
An ability to identify, formulate, and solve engineering problems by applying principles of engineering, science, and mathematics.
Outcome Status: Active
Outcome Type: Student Learning
Start Date: 08/23/2018

Assessment Methods

<table>
<thead>
<tr>
<th>Course Level Assessment</th>
<th>CONE 4100, CONE 4220, CONE 4310, CONE 4312, CONE 4320, CONE 4322, CE 2101 (Active)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Criterion</td>
<td>3.5 or higher for aggregated scores of class attainment across the listed courses</td>
</tr>
</tbody>
</table>

Survey - Student - Senior Exit Survey (Active)
Criterion: 3.5 or higher on question querying this issue on exit survey

Student Learning Outcome: ABET Criterion 3.2
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.
Outcome Status: Active
Outcome Type: Student Learning
Start Date: 08/23/2018

Assessment Methods

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<tr>
<th>Course Level Assessment</th>
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Survey - Student - Senior Exit Survey (Active)
Criterion: 3.5 or higher on question querying this issue on exit survey
Student Learning Outcome: **ABET Criterion 3.3**

An ability to communicate effectively with a range of audiences.

**Outcome Status:** Active  
**Outcome Type:** Student Learning  
**Start Date:** 08/23/2018

**Assessment Methods**

<table>
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<tr>
<th>Course Level Assessment</th>
<th>CONE 4100, CONE 4220, CONE 4300, CONE 4320, CONE 4322, CE 3121 (Active)</th>
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<td>Senior Exit Survey (Active)</td>
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Student Learning Outcome: **ABET Criterion 3.4**

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.

**Outcome Status:** Active  
**Outcome Type:** Student Learning  
**Start Date:** 08/23/2018

**Assessment Methods**

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Student Learning Outcome: **ABET Criterion 3.5**

An ability to function effectively on a team whose members together provide leadership, create a collaborative and inclusive environment, establish goals, plan tasks, and meet objectives.

**Outcome Status:** Active  
**Outcome Type:** Student Learning  
**Start Date:** 08/23/2018

**Assessment Methods**

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**Student Learning Outcome: ABET Criterion 3.6**
An ability to develop and conduct appropriate experimentation, analyze and interpret data, and use engineering judgment to draw conclusions.

**Outcome Status:** Active  
**Outcome Type:** Student Learning  
**Start Date:** 08/23/2018

**Assessment Methods**
- **Course Level Assessment** - CONE 4100, CONE 4220, CONE 4300, CONE 4320, CONE 4322, CE 3121 (Active)
- **Criterion:** 3.5 or higher for aggregated scores of class attainment across the listed courses
- **Survey - Student** - Senior Exit Survey (Active)  
- **Criterion:** 3.5 or higher on question querying this issue on exit survey

**Student Learning Outcome: ABET Criterion 3.7**
An ability to acquire and apply new knowledge as needed, using appropriate learning strategies.

**Outcome Status:** Active  
**Outcome Type:** Student Learning  
**Start Date:** 08/23/2018

**Assessment Methods**
- **Course Level Assessment** - CONE 4100, CONE 4220, CONE 4300, CONE 4320, CONE 4322, CE 3121 (Active)
- **Criterion:** 3.5 or higher for aggregated scores of class attainment across the listed courses
- **Survey - Student** - Senior Exit Survey (Active)  
- **Criterion:** 3.5 or higher on question querying this issue on exit survey