Degree Program Assessment Plan

Degree Program - ENG - Civil Engineering (MSCE)

CIP Code: 14.0801.00
Degree Program Coordinator: priyantha Jayawickrama
Degree Program Coordinator Email: priyantha.jayawickrama@ttu.edu
Degree Program Coordinator Phone: +18068340681
Degree Program Coordinator Mail Stop: 1023

Program Purpose Statement: The mission of the department has three elements:
To provide excellent instructions and design experiences essential for graduates to enter the practice of civil engineering and pursue lifelong professional development.
To provide research opportunities for students that generate, communicate, and apply new knowledge for the betterment of society.
To foster a spirit of service and leadership among students and faculty and assist the public in addressing issues concerning using our resources, protecting our environment and developing our infrastructure.

Student Learning Outcome: Research Methods and Analysis:
Students will demonstrate quantitative and qualitative skills in the design, analysis, and presentation of supervised research projects that is consistent with the focus of their program (e.g., Construction Engineering)

Outcome Status: Active
Outcome Type: Student Learning
Start Date: 09/01/2015
End Date: 08/31/2018

Assessment Methods

<table>
<thead>
<tr>
<th>Assessment Type</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Self-Assessments</td>
<td>Please see attached program review report. (Active)</td>
</tr>
<tr>
<td>Performance</td>
<td>Evaluation of Masters Exam, Report or Thesis pass rate (Active)</td>
</tr>
<tr>
<td>Criterion</td>
<td>80%</td>
</tr>
<tr>
<td>Schedule</td>
<td>Annually</td>
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</tbody>
</table>

Faculty Assessment - Seminar Pass Rate (Active)
Criterion: 80%
Schedule: Annually

Student Learning Outcome: Scholarly Communications
Students will produce written and oral communications of quality, as consistent with the focus of their program (e.g., Construction Engineering)

Outcome Status: Active
Outcome Type: Student Learning
Start Date: 09/01/2015
End Date: 05/30/2020
Assessment Methods

Master’s Comprehensive Exam - Each master’s student, whether thesis or non-thesis option, completes a comprehensive master’s exam to demonstrate ability to solve advanced problems. The master’s thesis presentation and defense with the overseeing advisors comprises this assessment for the thesis option. The non-thesis option includes a master's report possibility, which also has a presentation and defense similar to the thesis, and a courses-only possibility, which culminates with a written exam over the student's courses with the potential for oral follow-up if needed. (Active)

Criterion: The candidate must satisfy the committee's and CEE department's requirements.

Participation - Student Conference Publications (Active)

Criterion: 20% of students publish at least 1 paper/year
Schedule: Annually

Performance - Evaluation of Masters Exam, Report or Thesis pass rate (Active)

Criterion: 80%
Schedule: Annually

Faculty Assessment - Seminar Pass Rate (Active)

Criterion: 80%
Schedule: Annually

Student Learning Outcome: Professionalism

Students will know and participate in the intellectual and organizational aspects of the profession as applicable to the major area of study (e.g., Construction Engineering) including the ethical conduct of research

Outcome Status: Active
Outcome Type: Student Learning
Start Date: 09/01/2015
End Date: 05/30/2020

Assessment Methods

Master’s Comprehensive Exam - Each master’s student, whether thesis or non-thesis option, completes a comprehensive master’s exam to demonstrate ability to solve advanced problems. The master’s thesis presentation and defense with the overseeing advisors comprises this assessment for the thesis option. The non-thesis option includes a master's report possibility, which also has a presentation and defense similar to the thesis, and a courses-only possibility, which culminates with a written exam over the student's courses with the potential for oral follow-up if needed. (Active)

Criterion: The candidate must satisfy the committee's and CEE department's requirements.

Participation - Student Conference Publications (Active)

Criterion: 20% of students publish at least 1 paper
Schedule: Annually

Performance - Evaluation of Masters Exam, Report or Thesis pass rate (Active)

Criterion: 80%
Schedule: Annually

Faculty Assessment - Seminar Pass Rate (Active)
Degree Program - ENG - Civil Engineering (MSCE)

| Criterion: 80%  |
| Schedule: Annually |

Student Learning Outcome: Skills related to the civil engineering discipline

Students completing a masters degree in civil engineering should be able to utilize skills related to their specialty area (structures, transportation, geotechnical, environmental, or water resources).

Outcome Status: Active
Outcome Type: Student Learning
Start Date: 09/01/2009

Assessment Methods

<table>
<thead>
<tr>
<th>Assessment Method</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Master's Report</td>
<td>The primary assessment of the master's graduate's performance is the successful acceptance of their report or successful completion of their required coursework. (Active)</td>
</tr>
</tbody>
</table>

Criterion: The student's report is accepted or they complete all of the required coursework.

<table>
<thead>
<tr>
<th>Course Level Assessment</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Course Level Assessment</td>
<td>Successful completion of all necessary courses. (Active)</td>
</tr>
</tbody>
</table>

Criterion: All courses must be at a B or better. Overall graduate GPA must be a minimum of 3.0.