Mission / Purpose
The Department of Civil, Construction, and Environmental Engineering is dedicated to advancing the profession through its innovative, student-centered education and research programs. The faculty and staff are committed to preparing graduates for entry into the profession, educating future leaders of the profession, and conducting and disseminating meaningful basic and applied research for the betterment of the state, nation, and global communities.

Goals
G 1: Program Quality
The program will improve and sustain a high level of recognized quality.

Student Learning Outcomes, with Any Associations and Related Measures, Targets, Findings, and Action Plans
SLO 1: Program Quality
The program will improve and sustain a high level of recognized quality.

SLO 4: Technical Specialization
Synthesize advanced technical knowledge in a specialized area of civil or environmental engineering.

SLO 5: Tools and Problem Solving
Identify, formulate, and solve complex civil or environmental engineering problems.

Other Outcomes, with Any Associations and Related Measures, Targets, Findings, and Action Plans
OthOtcM 2: Program Optimal Enrollment
The program will build and sustain an optimal level of annual program enrollments and degree completions.

OthOtcM 3: Program Highly Valued
The program will be highly valued by its program graduates and other key constituencies it serves.

Details of Action Plans for This Cycle (by Established cycle, then alpha)
Increase MS enrollment
While emphasis is on PhD enrollment, the faculty will target increasing the number of MS.

Established in Cycle: 2012-2013
Implementation Status: Planned
Priority: High
Implementation Description: Focus will be on recruiting qualified students into the Scholars program.
Responsible Person/Group: All faculty
Additional Resources: None
University of Alabama

Detailed Assessment Report
2012-2013 Civil Engineering MSCE (Civil Engineering) / MSE (Environmental Engineering)
As of: 7/16/2014 08:36 AM CENTRAL

Mission / Purpose

The Department of Civil, Construction, and Environmental Engineering is dedicated to advancing the profession through its innovative, student-centered education and research programs. The faculty and staff are committed to preparing graduates for entry into the profession, educating future leaders of the profession, and conducting and disseminating meaningful basic and applied research for the betterment of the state, nation, and global communities.

Student Learning Outcomes, with Any Associations and Related Measures, Targets, Findings, and Action Plans

SLO 4: Technical Specialization
Synthesize advanced technical knowledge in a specialized area of civil or environmental engineering.

Related Measures

M 2: Performance on MS Project
Evaluation of the quality of work presented by students as part of their thesis or non-thesis project as evaluated the advisor and, as appropriate, committee.

Source of Evidence: Capstone course assignments measuring mastery

Target:
A command of the technical specialization outcome is required to pass the thesis or non-thesis project requirement. Target is to have the majority of student pass on their first attempt.

Finding (2012-2013) - Target: Met
All students passed the project requirement their first attempt.

M 7: MS Project
Performance on MS project, evaluated using a five-point Likert scale.

Source of Evidence: Project, either individual or group

Target:
An average score of at least 3 (meeting expectation) on the technical specialization assessment.

Finding (2012-2013) - Target: Met
An average of 3.9 was reported, exceeding the target.

OthOtcm 1: Program Quality
The program will improve and sustain a high level of recognized quality.

Related Measures

M 1: Refereed Publications
The number of refereed publications produced and appearing in print each year, using FAR data

Source of Evidence: Existing data

Target:
The faculty should publish, on average, at least 2 refereed publications per year.

Finding (2012-2013) - Target: Met
During the FAR reporting period of April-March, the faculty reported 67 refereed publications. With a faculty of 20, this results in 3.4 publications per year.

**M 2: Performance on MS Project**
Evaluation of the quality of work presented by students as part of their thesis or non-thesis project as evaluated the advisor and, as appropriate, committee.
Source of Evidence: Capstone course assignments measuring mastery

**Target:**
An average of 3 or higher on a five point Likert scale on the thesis or non-thesis project, as evaluated by the advisor and, as appropriate, committee.

**Finding (2012-2013) - Target: Met**
An average of 3.5 was reported for all graduating students, exceeding the target.

**OthOtcm 2: Program Optimal Enrollment**
The program will build and sustain an optimal level of annual program enrollments and degree completions.

**Related Measures**

**M 3: MS Enrollment**
Annual enrollment and trends.
Source of Evidence: Academic indirect indicator of learning - other

**Target:**
Maintain or increase MS enrollment to 60 by 2020.

**Finding (2012-2013) - Target: Not Met**
Current enrollment is 19, down 6 from the prior year.

**Related Action Plans (by Established cycle, then alpha):**

**Increase MS enrollment**
Established in Cycle: 2012-2013
While emphasis is on PhD enrollment, the faculty will target increasing the number of MS.

For full information, see the Details of Action Plans section of this report.

**M 4: MS Degrees Awarded**
Annual MS degrees awarded and trend.
Source of Evidence: Academic indirect indicator of learning - other

**Target:**
Increase degrees awarded to 55 by 2020.

**Finding (2012-2013) - Target: Not Met**
19 MS degrees were awarded, down from 22 the year prior.

**Related Action Plans (by Established cycle, then alpha):**

**Increase MS enrollment**
Established in Cycle: 2012-2013
While emphasis is on PhD enrollment, the faculty will target increasing the number of MS.

For full information, see the Details of Action Plans section of this report.

**OthOtcm 3: Program Highly Valued**
The program will be highly valued by its program graduates and other key constituencies it serves.

**Related Measures**

**M 5: MS Placements**
MS graduate placement in profession or graduate school.
Source of Evidence: Job placement data, esp. for career/tech areas

**Target:**
Nearly all graduates find employment in the profession or gain admission to continue their education in graduate school.

**Finding (2012-2013) - Target: Met**
18 of the 19 MS graduates had offers of employment or graduate school upon graduation.

**M 6: MS Student Survey**
An annual survey of MS students is conducted to assess, from their perspective, the quality of their experience.
Source of Evidence: Exit interviews with grads/program completers

**Target:**
An average score of 3 (meeting expectation) is targeted. Anything below is a cause for concern.

**Finding (2012-2013) - Target: Met**
The average score was 3.8; target met.

**Details of Action Plans for This Cycle (by Established cycle, then alpha)**

**Increase MS enrollment**
While emphasis is on PhD enrollment, the faculty will target increasing the number of MS.

Established in Cycle: 2012-2013
Implementation Status: Planned
Priority: High

Relationships (Measure | Outcome/Objective):
<table>
<thead>
<tr>
<th>Measure: MS Degrees Awarded</th>
<th>Outcome/Objective: Program Optimal Enrollment</th>
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</thead>
<tbody>
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<td>Outcome/Objective: Program Optimal Enrollment</td>
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**Implementation Description:** Focus will be on recruiting qualified students into the Scholars program.

**Responsible Person/Group:** All faculty

**Additional Resources:** None