

The University of Southern Mississippi

Detailed Assessment Report 2016-2017 Construction Engineering Technology BS*

Technology degree. Students create several estimates in this course with each one increasing in scope and complexity. Assignment three requires students to assemble a cost estimate and report.

Source of Evidence: Written assignment(s), usually scored by a rubric

Target:

The achievement target will have been met if 80 percent or more assessed students achieve a 70% or better on the assignment.

Finding (2016-2017) - Target: Not Met

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Actively Recruit On-Campus Students

Established in Cycle: 2016-2017

The faculty and staff of the School of Construction will attend and host at minimum three (3) recruiting events that target increasing enrollment on-campus Construction Engineering Technology majors.

SLO 6: Employers are satisfied with intern's performance.

Construction Engineering Technology students are required to complete an internship consisting of 400 contact hours as part of their degree requirements.

Related Measures

M 10: (Indirect) Employer Survey

Construction Engineering Technology students are required to complete an internship as part of their degree requirements. At the end of the internship, their supervisor completes an evaluation of the intern's performance as related to his/her assigned tasks during the internship. The Supervisor's Evaluation form consists of 10 questions which have 1-5 point rating options for response. The ratings include: 1=extremely dissatisfied; 2=slightly dissatisfied; 3=satisfied; 4=considerably satisfied; 5=extremely satisfied.

Source of Evidence: Employer survey, incl. perceptions of the program

Target:

The achievement target will have been met if 80 percent or more assessed students achieve a three (3= satisfied) or higher rating based on the average of the responses to the 10 questions on the evaluation form.

Finding (2016-2017) - Target: Met

Hattiesburg On-Campus: 100% (N= 17) 17/17 of the on-campus Construction Engineering Technology students received a 3=satisfied or higher average rating. Online: 100% (N=14) 14/14 of the online Construction Engineering Technology students received a 3=satisfied or higher average rating.

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

Actively Recruit On-Campus Students

The faculty and staff of the School of Construction will attend and host at minimum three (3) recruiting events that target increasing enrollment on-campus Construction Engineering Technology majors.

Established in Cycle: 2016-2017

Implementation Status: In-Progress

Priority: High

Relationships (Measure | Outcome/Objective):

Measure: IR Enrollment Data | **Outcome/Objective:** Increase Hattiesburg on-campus enrollment.

Implementation Description: The School of Construction hosted a spring 2017 "Craft of Construction" day where high school and community college students visited our Hattiesburg campus. We plan to host this event again next spring. We will also look for opportunities to attend community college and high school career days.

Projected Completion Date: 08/2018

Responsible Person/Group: Coordinator of Construction Engineering Technology, Student Advancement Administrator and faculty in the program.

Additional Resources: Funding and personnel to plan and manage this all-day event.

Budget Amount Requested: \$6,000.00 (recurring)

AEC 132 Final Project

The findings indicate that students need more support in the beginning of the semester because AEC 132 is deemed a "historically difficult course" by the university based on the four academic years of data compiled by the Institutional Research for courses in

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Implementation Status: In-s.5(17re tCycle: 357 TD42.0958h)Tj/TT2 Tf-4https://app.weavetion 7 -19.0599h

Measure: (Direct): AEC 365 Cost Estimate and Report | **Outcome/Objective:** Create construction project cost estimates.

Projected Completion Date: 08/2018

Responsible Person/Group: Coordinators of CET and AET programs and instructor of record

BCT 400 Cost Estimate Plan

Discuss an action plan with the Director of the School and the unit Coordinator(s) that involves content of prerequisite courses: The Senior Capstone course, BCT 400, is intended for students to show evidence of competencies, not to attain the competencies during the course.

Established in Cycle: 2016-2017

Implementation Status: Planned

Priority: High

Projected Completion Date: 08/2018

Responsible Person/Group: AET and CET director , coordinators, and instructor of record

BCT 400 Safety Plan

Discuss an action plan with the Director of the School and the unit Coordinator(s) that involves content of prerequisite courses: The Senior Capstone course, BCT 400, is intended for students to show evidence of competencies, not to attain the competencies during the course.

Established in Cycle: 2016-2017

Implementation Status: Planned

Priority: High

Relationships (Measure | Outcome/Objective):

Measure: (Direct): BCT 400 Safety Project | **Outcome/Objective:** Create a construction project safety plan.

Projected Completion Date: 08/2018

Analysis Questions and Analysis Answers

What specifically did your assessments show regarding proven strengths or progress you made on outcomes/objectives?

Construction Engineering Technology students met or surpassed the learning outcomes target in several areas of the degree. Both online and on-campus students are able to create a site-specific safety plan for a project, understand methods of project delivery, and use software to develop a quality takeoff in estimating a project. All internship employers are satisfied with our student intern's performance during the required 400 contact hour internship our students typically participate in during the summer of their junior year of studies.

What specifically did your assessments show regarding any outcomes/objectives that will require continued attention?

Both online and on-campus students are not achieving the target outcomes in the AEC 365 (Estimating 2) and BCT 400 (Capstone-estimating portion of this course) courses. Coordinators of the AET and CET programs and course instructor of record of these two classes will review the possible reasons for this concern and develop solutions to implement. We made considerable changes in pre-requisites and course sequencing in the Fall 2015 and some students in earlier catalogs may have been subject to not having the 'new' per-requisites courses completed prior to enrolling in the AEC 365 course. Both online and on-campus AEC 132 (Architectural Graphics) students are not achieving the target outcomes. The instructor of record will be adding additional help session material and time to assist students in learning the material and software.

Annual Report Section Responses

Program Summary.

Summarize highlights of the past year for this particular academic program. Provide context to an outside reviewer.

The Construction Engineering Technology (CET) degree program has around 370 majors (130 on-campus; 240 online) and only 7 faculty teaching courses in both Construction and Architectural Engineering Technology (around 70 majors) degree programs. 66% of the coursework is shared (both Construction and Architecture students must complete as part of the 120 credits required to receive the B.S.) for these two degrees. Construction Engineering Technology is accredited by ETAC-ABET (Engineering Technology Accrediting

