

## **Action Taken as a Result of Assessment Data Collection for 2016-2017 Academic Year: Based on (2015-2016) Results**

### **SAT/GPA**

Action Taken: Goal **NOT MET**. We will continue to work with our College Recruitment Office to contact High School students and present the need for STEM capabilities in the profession. We will continue recruiting at STEM high school programs, as well as Community College programs for Transfer students. Our goal of SAT 1100 score is currently higher than the University average of first year freshman of 1034.

### **Underrepresented Groups**

Action Taken: Goal **NOT MET**. We will continue our outreach programs in high schools and community college to increase our current 10.2% rate. This was a decrease in enrollment from the previous year's 14.3% rate.

### **Direct Student Learning Outcome Assessments**

Actions Taken: Goal **MET**. The Faculty implemented a new IPAR Assessment Instrument that cataloged all Course Learning Outcomes (CLO) and ultimately collected data for the Program Student Learning Outcomes (SLO). This is the second year of full assessment of the new ACCE 20 Student Learning Outcomes. Faculty have met and reviewed all assessment measures, making additions, deletions, and alterations as needed. This academic year included the new CMGT 3710/3711 Infrastructure and Highway Materials, and CMGT 4340 Construction Economics. The new required courses, CMGT 4010 Construction Estimating II, will be taught in fall 2016. CMGT 4010 and CMGT 4340 are used in the assessment of specific SLOs. Six (6) SLOs will be reviewed by Faculty and the Industry Advisory Board to verify effectiveness of learning and assessment in the particular addressed classes.

### **CMGT Students Participating in Competitions**

Actions Taken: Goal **MET**. In fall 2015 a Competition Team Independent Study class was created for the purpose of developing team members for the NAHB Competition team. From that class eight (8) students completed the course and were a member of the completion class. In fall 2016 another NAHB class will again be offered.

Our thirty-five (35) freshman students in CMGT 2210/2211 also competed in the Oldcastle Blockfest Competition. Seven student teams created designs for a wall, bench, or other structure. All were charged with using one palette of brick and one palette of concrete masonry units, with designs being completed before the actual construction competition. Students were then given one hour to construct their designs in mortarless construction. This is an annual competition and will grow in scope at both the local and state level.

In addition faculty members are investigating the developing of teams for the ASC Regional competition and the National Design-Build Competition. Presentations will be

made to Student Organization and faculty recruitment will take place to develop the teams.

### **Courses with Hands-On Experiments**

Action Taken: Goal **MET**. We currently **EXCEED** our goal of four classes by one class with the development of the required CMGT3710/3711 Infrastructure and Highway Materials class. With the development of the new CRAFT Lab facility, the number of classes is expected to increase. The time frame for the construction of the lab is under review.

### **Courses Integrating Technology**

Action Taken: Goal **MET**. We are developing the integration of BIM into the Estimating, Scheduling, MEP, and Capstone classes. The new CMGT 4010 Estimating II will be added to this list when it is first taught in fall 2016. An advanced BIM course is also being developed.

### **Construction Sites Visited**

Action Taken: We have **MET** our goal. Faculty are encouraged to incorporate site visits in their classes. With three new structures under construction on the ECU campuses, we are hopeful that approval to visit those sites will take place in both the upcoming fall and spring semesters. This will encompass a number of classes.

### **Graduating Senior Exit Survey**

Action Taken: Goal **NOT MET**. *Knowledge* encompasses writing effectively, speaking effectively (i.e., to large and small groups and making presentations), listening attentively and comprehending written and oral information goals were met. *Skills* encompasses using mathematical skills, applying scientific methods of inquiry, applying analytic skills, using critical thinking skills, using technologies appropriate to the discipline, developing leadership skills, and working effectively as part of a team. We did Not Meet the goal in this area of development. These concerns will be addressed in classes based upon the ACCE SLOs: Applying Scientific Methods of Inquiry, Applying Analytical Skills. *Personal growth* areas of concern will be addressed in all classes: Issues associated with Racial Equity (66.7%) and Issues associated with Gender Equity (64.0%) are areas of continued discussion and involvement. These two areas are of a concern since our profession includes all individuals.

### **One and Four Year Alumni Survey**

Action Taken: Goal **MET** for both year surveys. As Year 2012 graduates were educated using different parameters for learning, the results were lower. Eight of the twenty SLOs fell below the 3.5 score, with two below a 3.0 score. Year 2015 graduates had all twenty SLOs above the 3.5 score with nine SLOs above 4.0. These students were assessed for two of their academic careers under the new 20 SLO format. As more recent alumni continue to take the survey, it is anticipated that scores will increase as shown by the 2015 alumni survey results.

### **Employer Survey**

Action Taken: Goal **MET** for this academic year. The **summer 2015** Employer Survey was given. All 19-20 Assessment SLO Means were above 4.00. SLO 17 Contracts was rated at 3.84. All comments and analysis of results will be addressed by faculty in future classes. The **summer 2016** Employment Survey was given. With the 20 SLO Means, 8 SLOs rated above 4.0. SLO 4 "Possesses the ability to prepare construction project cost estimates" received a score of 3.47/5. SLO 11 "Effectively performs basic surveying techniques for construction layout" received a score of 3.49/5. These two SLOs will be evaluated by faculty and the IAB during the coming academic year to determine what areas of development need to take place.

### **Placement Rate**

Actions Taken: Goal **NOT MET**. We have been active in obtaining information from students when they graduate, as this academic year results are an increase from the past year. Efforts will be refocused with 1-2-3 month contacts after graduation to insure obtaining relevant information from students. It is expected the Placement Rate will meet its goal for the coming academic year, as the job market and employee interest has increased over the past year.

### **Number of Students completing an Internship**

Action Taken: Goal **MET**. With the improvement of the construction industry, students are having little problem in obtaining internships. We continue to encourage employers to implement internship opportunities for our students. Based upon Career Fair activity of a combined (130) construction and construction related industries attending the Fall, Spring and CET gatherings, the opportunities have greatly increased for our students.

### **Diversity of Companies Attending the Career Fair**

Action Taken: Goal **MET** with representatives from each major section of the industry. We are continuing to contact other companies for representation at the fall, spring and CET Career Fairs. The past year had a combined (130) construction and construction related industries attending the Fall, Spring and CET gatherings interviewing our UG students for both internships and permanent employment.

### **Upper Division Enrollment**

Actions Taken: Goal **NOT MET**. Our enrollment has had a significant growth over the past three years due to our continual efforts in recruiting in high schools and community college programs. Based on those numbers, the upper division enrollment figures will increase. With a limited number of graduates this past academic year, we will have a significant number of Junior and Senior students.

### **Number of Graduates Each Semester**

Action Taken: Goal **NOT MET**. Our current graduating classes represent those students that entered our program during the depression that affected the construction industries and programs in construction management. We have continued to actively recruit high school students and community college programs and our enrollment continues to increase. The spring enrollment was 358, with an anticipated enrollment of 400 in fall 2016.