

## **Actions to be Taken as a Result of Assessment Data Collection for 2017-2018 Academic Year: Based on (2016-2017) 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 are continually 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 academic year average 11.92% rate. We have increased our underrepresented group's enrollment from the previous year's 10.2% rate.

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

Actions Taken: Goal **NOT MET**. The Faculty continued implementation of the IPAR Assessment Instrument that cataloged all Course Learning Outcomes (CLO) and ultimately collected data for the Program Student Learning Outcomes (SLO). This is the third 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. Eight (8) SLOs (SLOs 1, 2, 4, 6, 7, 9, 13, and 14) were reviewed by the Assessment Committee, Faculty members, and the Industry Advisory Board to verify effectiveness of learning and assessment in the particular addressed classes. Adjustments have been made to classes to reflect the needed corrections. In 2017-18, SLOs 3, 5, 8, 10, and 11 will be reviewed by the Assessment Committee, Faculty members, and the Industry Advisory Board as part of our ACCE Assessment cycle. Specifically SLO 16 will be reviewed during the academic year to implement an additional assessment measures.

In February 2017, ECU CMGT received its reaccreditation for six years (February 2023). The ACCE Visiting Re-Accreditation team visited the campus in September 2017.

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

Actions Taken: Goal **NOT MET**. In fall 2016 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 competition class. Unfortunately because of a blizzard, all flights were cancelled and our teams were not able to compete in the January 2017 Competition. A fall 2017 class will be available for the development of the 2018 team.

In addition, faculty members are investigating the developing of teams for the ASC Regional competition and the DOE Race to Zero Competition. Presentations will be made to Student Organizations 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 required CMGT3710/3711 Infrastructure and Highway Materials class. With the development of the new CRAFT Lab facility, the number of classes are expected to increase. The time frame for the construction of the lab is under review.

### **Courses Integrating Technology**

Action Taken: Goal **MET**. We are continuing the developing of BIM integration into the Estimating, Scheduling, MEP, and Capstone classes. We currently have seven (7) courses that integrate technology. With new faculty having advanced BIM training and knowledge, as well as student interest, an advanced BIM course is being planned.

### **Construction Sites Visited**

Action Taken: Goal **MET**. Faculty are strongly encouraged to incorporate site visits in their classes. Industry Advisory Board members have indicated their willingness to provide site visits to plants and facilities. Although there are three new structures under construction on the ECU campuses, we have not been successful in obtaining University approval to visit those sites. We are continuing our efforts to have these opportunities. When class visits are not possible, faculty are contacting individuals to provide class lectures on current projects.

### **Graduating Senior Exit Survey**

Action Taken: Goal **NOT MET**. Knowledge encompassing 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 which encompasses using mathematical skills, applying scientific methods of inquiry, applying analytic skills, using critical thinking skills, using technologies appropriate to my discipline, developing leadership skills, and working effectively as part of a team did not meet the goal. 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 and Issues associated with Gender Equity. These two areas are of a concern since our profession includes all individuals. The percentages noted this year were significantly lower than the previous year. Faculty will address these issues during the course of the next academic year.

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

Action Taken: Goal **MET** for these year surveys. Year 2013 had a mean average of 3.85/5.00. Although Year 2013 graduates were educated using different parameters for learning, the results were higher. Three of the twenty SLOs fell below or at the 3.5

score. Eight SLOs were above a 4.00 mean score. The SLO having a 3.50 score was SLO 3 “Developed my ability to create a construction project safety plan”. The SLOs have mean scores below 3.5 were: SLO 4 “Developed my ability to create construction project cost estimates” (3.40), SLO 5 “Developed my ability to create construction project schedules” (3.45), and SLO 14 “Provided understanding of construction accounting and cost control” (3.20)

Year 2016 graduates had an overall lower mean average. The mean average was 3.78/5.00. Five of the 20 SLOs fell below the 3.5 score, Six SLO scores were above 4.00 mean score. The SLOs having mean scores below 3.5 were: SLO 3 “Developed my ability to create a construction project safety plan” (3.40), SLO 4 “Developed my ability to create construction project cost estimates” (3.33), SLO 5 “Developed my ability to create construction project schedules” (3.20), SLO 8 “Developed my ability to analyze methods, materials, and equipment used in construct projects” (3.20), and SLO 10 “Developed my ability to apply electronic-based technology to manage the construction process” (3.47) These students were assessed for three 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.

Faculty involved in all assessment areas will evaluate the comments and responses of the alumni. Specific SLO areas addressed as at or below the 3.50 mean will be review with the CMGT Assessment Committee and Industry Advisory Board SLO Mentors to determine how the anticipated performance of students can be improved, and then be incorporated into the classes and tracked during the academic year. All SLOs should be maintained at the 4.00 level, therefore all faculty will carefully evaluate the performance and outcomes associated with their classes.

### **Employer Survey**

Action Taken: Goal **MET** for this academic year with a mean average of 4.0/5.0. The Summer 2017 Employer Survey was given. Eleven of 20 Assessment SLO Means were above 4.00. Two SLOs fell below the 3.50 mean. They were: SLO 11 “Effectively applies basic surveying techniques for construction layout and control.” (3.20) and SLO 14 “Provided understanding of construction accounting and cost Control” (3.20). The remaining SLOs ranged from 3.95 to 3.50.

Faculty involved in all assessment areas will evaluate the comments and responses of our Industry Employers. Specific SLO areas addressed as at or below the 3.50 mean will be reviewed with the CMGT Assessment Committee and Industry Advisory Board SLO Mentors to determine how the anticipated performance of students can be improved, and then be incorporated into the classes and tracked during the academic year. All SLOs should be maintained at the 4.00 level, therefore all faculty will carefully evaluate the performance and outcomes associated with their classes.

### **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. The Placement rate, because of the improved work environment is almost at the 100% rate. We anticipate that the 2017-2018 graduates will have a 100% rate.

### **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 (166) construction and construction related industries attending the fall, spring and CET gatherings, the opportunities have greatly increased for our students. Currently the overwhelming percentage of students are determining their final places of employment a full semester before graduation.

### **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 academic year had a combined (166) 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 **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 have increased. Anticipated increased student enrollment will continue to increase the number of graduates beyond our goal of 250. It is our intention not to increase enrollment substantially above a total student population of 550.

### **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 graduates are the first major class after the downturn. With increased enrollment anticipated at 540 in fall 2017, the number of graduates should soon be meeting their anticipated goal of 50.