

## **Actions to be Taken as a Result of Assessment Data Collection for 2020-2021 Academic Year: Based on (2019-2020) Results**

### **SAT/GPA**

Action Taken: Goal **NOT MET**. The SAT scores have increased by an average of 35 points over the previous academic year. 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 1070.

### **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 17.2% rate to meet the target percentage of 20%. We have increased the actual number our underrepresented group's enrollment from the previous year of 14.8%. We believe that by next academic year we will meet our goal. The University current undergraduate underrepresented groups' total 36% of the student body.

### **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 sixth 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 SLOs (SLOs 1, 2, 4, 6, 7, 9, 13, and 14) were reviewed by the Assessment Committee, Faculty members, and the Industry Advisory Board Mentors to verify effectiveness of learning and assessment in the designated addressed classes. Adjustments have been made to classes to reflect the needed corrections. In 2020-2021, SLOs 3, 5, 8, 10, and 11 will be reviewed by the Assessment Committee, Faculty members, and the Industry Advisory Board Mentors as part of our ACCE Assessment cycle.

In February 2017, ECU CMGT received its reaccreditation for six years (February 2023).

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

Actions Taken: Goal **MET**. In Fall 2019 an independent Competition Team was created for the purpose of developing team members for the NAHB Competition team. From that team eight (8) students were a member of the competition team. The team successfully completed at the NAHB Convention in Las Vegas, NV, where they finished in 9<sup>th</sup> Place out of 40 competing teams. In addition, the ABC Competition team had

anticipated completing in the ABC National Construction Management Student Competition in Long Beach, California. However, due to the COVID 19 pandemic, the team was unable to complete. This was the second year of the ECU ABC Student organization, after finishing in the Top 10 last year.

In addition, faculty members are investigating the developing of teams for the National Roofing Contractors Association (NRCA) Construction Management Student Competition. Presentations will be made to Student Organizations and faculty recruitment will take place to develop the team.

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

Action Taken: Goal **MET**. We currently **EXCEED** our goal of four classes. We continue to emphasize knowing how building systems and components work and the testing required in the industry. Students acknowledge that these courses provide the background needed for success in the industry.

### **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. Last year, with the assistance of an ECU Grant funding the CMGT 3010 BIM class was able to incorporate more advanced BIM applications.

### **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. 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. Because our class sizes are enlarged due to our increased student population, class site visits are becoming harder to undertake. We are reviewing remote visits with internet software.

Class visits took place in CMGT 3710 Infrastructure and Highway Materials. In addition, CMGT 4300 requires student teams to actively visit construction projects for their team grade. In the Spring 2020 semester, due to the COVID 19 pandemic, construction site visits anticipated, were cancelled. Visits by student organizations, including ECCA, AGC, WICAT, and USGBC have become a way students can access construction sites in smaller numbers. Faculty advisors are working with the student groups in obtaining permission for site visits.

### **Graduating Senior Exit Survey**

Action Taken: Goal **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 higher than in previous year. This is the first year that we have met all components.

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

Action Taken: Goal **MET** for these year surveys. Year 2016 had a mean average of 3.82/5.00. Year 2016 graduates (9 Respondents – 17.0% Response Rate) were the third graduating class educated using the current parameters for learning. Two of the twenty SLOs fell below the 3.5 score. The two SLOs were SLO 4 Create construction project cost estimates, and SLO 5 Create construction project schedules. Eight SLOs were at or above the 4.00 mean score.

Year 2019 graduates (39 Respondents – 50.0% Response Rate) had an overall lower mean average. The mean average was 3.66/5.00. One of the 20 SLOs fell below the 3.5 score (SLO 20: Provided understanding of the basic principles of mechanical, electrical and piping systems. Three SLO scores were at or above the 4.00 mean score. These students were assessed for four of their academic careers under the new 20 SLO format.

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. Comments from the Student Alumni respondents will be reviewed for better understanding of potential changes in classes.

### **Employer Survey**

Action Taken: Goal **MET** for this academic year with a mean average of 3.935/5.0. The Summer 2020 Employer Survey (11 Respondents – 16.0% Response Rate) was given. No SLOs fell below the 3.50 mean. Nine of 20 Assessment SLO Means were at or above the 4.00 mean score. The remaining SLOs ranged from 3.60 to 3.90.

Faculty involved in all assessment areas will evaluate the comments and responses of our Industry Employers. Specific SLO areas addressed near 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. Comments from the Industry respondents will be reviewed for better understanding of potential changes in 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 Spring 2020 percentage is incomplete, as seven graduates have never completed the survey. We are continually seeking documentation from the graduates. Based on these comments, the reality is that 100% of our graduates have obtained employment in the construction industry.

### **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 (150) 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. During the Spring 2020 semester, due to the closing of the University because of COVID 19, a significant number of students continued or began internships, as construction did not slow as other industries did. Due to the ongoing issues with COVID 19, the Fall Career Fair will be Virtual. As such, we do not know what the successfulness of the event will be.

Current data from the Academic Advising Center have shown increasing number of students having difficulty in completing the 500-hour requirement. Some students have applied for a waiver due to the COVID-19 pandemic. The Student Work Experience Task Force has regular meetings to review the waiver applications.

### **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 (150) construction and construction related industries attending the Fall and Spring gatherings interviewing our UG students for both internships and permanent employment. Fortunately, the Spring 2020 Career Fair took place in February before the COVID 19 pandemic began. With the COVID 19 issue, the Fall 2020 Career Fair will be "Virtual".

### **Upper Division Enrollment**

Actions Taken: Goal **MET**. Our enrollment has had a significant growth over the past six 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. Increased student enrollment has met our student enrollment beyond our goal of 250 for the third straight year. Although it is our intention not to increase enrollment substantially above a total student population of 550, with the increasing numbers of students seeking our degree, the Fall 2020 enrollment is 687 Undergraduate students.

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

Action Taken: Goal **NOT MET**. Our current graduating classes represent those students that entered our program as the construction industries and programs in construction management were turning upward. We have continued to actively recruit high school students and community college programs and our enrollment continues to increase. With increased enrollment anticipated at 687 in fall 2020, the number of graduates will continue to meet the goal of 50 for each semester. Typically, the Spring semester graduations are higher than the fall graduations.