

Actions to be Taken as a Result of Assessment Data Collection for 2019-2020 Academic Year: Based on (2018-2019) 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 1009.

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 14.8% rate. We have increased the actual number our underrepresented group's enrollment from the previous year of 12%. The University current undergraduate underrepresented groups total 33.3% 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 fifth 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. Seven (7) SLOs (SLOs 12, 15, 16, 17, 18, 19, and 20) 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 2019-2020, SLOs 1, 2, 4, 6, 7, 9, 13, and 14 will be reviewed by the Assessment Committee, Faculty members, and the Industry Advisory Board Mentors as part of our ACCE Assessment cycle. Currently we are looking specifically at CMGT 4400 to revise CLOs to more fully encapsulate the SLOs associated with the class.

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

CMGT Students Participating in Competitions

Actions Taken: Goal **MET**. In fall 2018 an independent Competition Team was created for the purpose of developing team members for the NAHB Competition team. From that team nine (9) students were a member of the competition team. The team successfully completed at the NAHB Convention in Las Vegas, NV. In addition, the ABC Competition team completed for the first time at the ABC National Construction Management Student Competition in Long Beach, California. This was the first year of the ECU ABC Student organization.

In addition, faculty members are investigating the developing of teams for the DOE Race to Zero Competition and 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 teams.

Courses with Hands-On Experiments

Actions 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. With ECU Grant funding the current CMGT 3010 BIM class is proposed 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 2019 semester teams visited six construction projects around Pitt County. 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 **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 2015 had a mean average of 3.56/5.00. Year 2015 graduates (11 Respondents -26.8% Response Rate) were the second graduating class educated using the current parameters for learning. Seven of the twenty SLOs fell below the 3.5 score. The seven SLOs were SLO 3 Create a construction project safety plan, SLO 4 Create construction project cost estimates, SLO 5 Create construction project schedules, SLO 13 Understand construction risk management, SLO 14 Understand construction accounting and cost control, SLO 17 Understand the legal implications of contract, common, and regulatory law to manage a construction project, and SLO 20 Understand the basic principles of mechanical, electrical and piping systems. Three SLOs were above a 4.00 mean score.

Year 2018 graduates (29 Respondents – 32.6% Response Rate) had an overall higher mean average. The mean average was 3.85/5.00. None of the 20 SLOs fell below the 3.5 score, Four SLO scores were above 4.00 mean score. These students were assessed for four of their academic careers under the new 20 SLO format. As more recent alumni continue to take the survey, it is anticipated that the scores will continue to 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 3.935/5.0. The Summer 2019 Employer Survey (24 Respondents – 28.1% Response Rate) was given. No SLOs fell below the 3.50 mean. Nine of 20 Assessment SLO Means were above 4.00. 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 Fall 2018 percentage is incomplete, as the remaining five graduates were still evaluating offers at the close of the survey. We are continually seeking documentation from the graduates. The Spring 2019 percentages is also incomplete as 6 graduates were still evaluating offers at the close of the survey. 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 (170) 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 (170) 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 five 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 second 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 2019 enrollment is 628 UG students.

Number of Graduates Each Semester

Action Taken: Goal **NOT MET**. Our current graduating classes represent those students that entered our program as the depression that affected the construction industries and programs in construction management was beginning to turn upward. We have continued to activity recruit high school students and community college programs and our enrollment continues to increase. With increased enrollment anticipated at 628 in fall 2019, the number of graduates should soon be meeting their

anticipated goal of 50 for each semester. Typically the Spring semester graduations are higher than the fall graduations.