

Civil Engineering Technology

B. S.

Expanded Statement of Institutional Purpose

Institutional Mission Reference

The BS degree program in Civil Engineering Technology offers a high quality degree program that meets national standards of excellence. It is a significant component of the University's commitment to science, engineering, and technology, particularly in fields of major importance to the region. Through the University's TELETECHNET distance learning program, the Civil Engineering Technology program provides opportunities for technical personnel throughout the state and elsewhere to enhance their education and pursue baccalaureate level studies. Simultaneously, the program supports the general education components that yield a well-rounded graduate who is aware of societal needs and issues.

Institutional Goal(s) Supported

The BS degree program in Civil Engineering Technology supports the University goals of (a) quality undergraduate programs, (b) quality teaching, (c) application of engineering principles to serve the local community through applied research and development, (d) distance education through TELETECHNET utilizing state-of-the art delivery methods, and (e) life-long learning. The major strategic initiatives supported by the department are Strategic Initiative 1 (High-Quality, Distinctive Undergraduate Programs), Strategic Initiative 5 (Distance Education), and Strategic Initiative 10 (Strengthen and extend the existing relationships with community colleges, the U. S. Navy, and industry.)

Intended Educational (Student) Outcomes, Methods for Assessment, Criteria for Success, Assessment Results, and Use of Results

Intended Outcome 1

Graduates of the Civil Engineering Technology program will demonstrate that they have achieved a satisfactory mastery of the knowledge, techniques, skills, and modern tools of their discipline.

Method for Assessing Outcome 1 and Criterion for Success: 100% of graduates will earn at least satisfactory levels of performance on the technical portions of their senior project course(s) and 50% will earn good or excellent evaluations. Evaluations will be performed by a faculty team with industry representatives when appropriate. Comparisons will be made between the performance of on-campus students and TELETECHNET students on this measure.

Summary of Assessment Data Collected for Outcome 1: There were 40 CET students that completed the technical portions of the Senior Review Project course during the 1999 and 2000 calendar years. Their performance was evaluated by a committee of their faculty members. Twenty-nine (72%) received a performance evaluation of good to excellent and 11 (28%) a rating of SATISFACTORY. All of the students completed the course. Additional students did not complete the class and did not graduate for reasons not related to performance and will complete the course at a later date.

Intended Outcome 2

: Students will communicate effectively in writing.

Method for Assessing Outcome 2 and Criterion for Success: 100% of graduates will earn at least satisfactory levels of performance on the written portions of their senior project course(s) and 50% will earn good or excellent evaluations. Evaluations will be performed by a faculty team with industry representatives when appropriate. 100% of graduates will pass the Exit Writing Examination. Comparisons will be made between the performance of on-campus students and TELETECHNET students on this measure.

Summary of Assessment Data Collected for Outcome 2: Of the 40 CET students within the senior design project course during the 1999 and 2000 calendar years, 25 (63%) received a performance rating on the written portion of good or excellent and 15 (38%) a rating of satisfactory. No students failed the course. Several students were given incomplete for reasons no related to the quality of their work. These students will complete the course prior to graduation.

Intended Outcome 3

Students will give clear and effective oral presentations.

Method for Assessing Outcome 3 and Criterion for Success: 100% of graduates will earn at least satisfactory levels of performance on the oral presentations in their senior project course(s) and 50% will earn good or excellent evaluations. Comparisons will be made between the performance of on-campus students and TELETECHNET students on this measure. 100% of students will earn at least minimum passing grades in a required course in Public Speaking.

Summary of Assessment Data Collected for Outcome 3: Of the 40 CET students in the senior design project course in the 1999 and 2000 calendar years 33 (83%) received a performance rating on the oral portion of good or excellent and 7 (18%) a rating of satisfactory. None of the students enrolled failed the class. Several students were given incompletes for reasons not related to performance. All students will complete the course prior to graduation. Oral presentations were made by video tape and were reviewed by a faculty committee. All graduates received a passing grade on the public speaking course.

Intended Outcome 4

Graduates will demonstrate sound educational preparation and competence in their profession through successful career progress.

Method for Assessing Outcome 4 and Criterion for Success: By means of triennial surveys, 75% of graduates who respond will evaluate their career progress as at least comparable to and 25% will evaluate their career progress as higher or much higher than that of graduates of similar programs at other institutions. Comparisons will be made between the performance of on-campus students and TELETECHNET students on this measure.

Intended Outcome 5

Employers will demonstrate that the educational preparation of graduates is substantial.

Method for Assessing Outcome 5 and Criterion for Success: By means of triennial surveys, 75% of supervisors who respond will evaluate the educational preparation of our graduates to be at least comparable to and 25% will evaluate their educational preparation to be somewhat or much higher than that of graduates of similar programs at other institutions. Comparisons will be made between the performance of on-campus students and TELETECHNET students on this measure.

Intended Outcome 6

Overall, the faculty, curriculum, laboratories, and equipment of the Civil Engineering Technology program will demonstrate nationally recognized quality standards.

Method for Assessing Outcome 6 and Criterion for Success: The program will continue to maintain accreditation by the Technology Accreditation Commission of the Accreditation Board for Engineering and Technology (TAC of ABET).