

Civil Engineering Technology BS

Expanded Statement of Institutional Purpose

Institutional Mission Reference

The B.S. 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 Electrical 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 B.S. 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, and industry).

Intended (Student) Outcomes, Methods for Assessment, and Criteria for Success

Intended Outcome 1

Graduates will 1) have an appropriate mastery of the knowledge, techniques, skills, and modern tools of their discipline, 2) will have an ability to apply current knowledge and adapt to emerging applications of mathematics, science, engineering, and technology, and 3) will have an ability to identify, analyze, and solve technical problems

Method for Assessing Outcome 1 and Criterion for Success: CET classes will meet all course objectives pertaining to outcome 1, and senior exit survey results will average a minimum of 5.0 on questions pertaining to this outcome.

Intended Outcome 2

Graduates will have an ability to conduct, analyze, and interpret experiments and apply results to improve processes.

Method for Assessing Outcome 2 and Criterion for Success: Class average grades for CET laboratory and laboratory-related courses will be at least 75 percent.

Intended Outcome 3

Graduates will have an ability to apply creativity in the design of systems, components, or processes appropriate to program objectives.

Method for Assessing Outcome 3 and Criterion for Success: CET475 W Senior Project grades will average at least 75 percent. Graduates will rate their skills pertaining to outcome 3 at least a 5.0 on the senior exit survey.

Intended Outcome 4

Graduates will have an ability to function effectively on teams.

Method for Assessing Outcome 4 and Criterion for Success: Results on the senior exit survey and the alumni survey will rate the graduates ability to work on teams at least 5.0 on both surveys.

Intended Outcome 5

Graduates will have an ability to communicate effectively.

Method for Assessing Outcome 5 and Criterion for Success: Initial passing rate on the exit writing exam will be at least 65%, and ratings of graduates' oral and written communications on employer surveys will be at least 4.0.

Intended Outcome 6

Graduates will have a recognition of the need for, and an ability to engage in lifelong learning.

Method for Assessing Outcome 6 and Criterion for Success: Results of both the senior exit survey and alumni survey pertaining to an appreciation for lifelong learning will be at least 6.0.

Intended Outcome 7

Graduates will have an ability to understand professional, ethical, and social responsibilities.

Method for Assessing Outcome 7 and Criterion for Success: Results of both the senior exit survey and alumni survey pertaining to an understanding of professional, ethical, and

social responsibilities will be at least 5.0.

Intended Outcome 8

Graduates will have a respect for diversity and a knowledge of contemporary professional, societal, and global issues

Method for Assessing Outcome 8 and Criterion for Success: Results of both the senior exit survey and alumni survey pertaining to a respect for diversity and a knowledge of contemporary professional, societal, and global issues will be at least 5.0

Intended Outcome 9

Graduates will have a commitment to quality, timeliness and continuous improvement.

Method for Assessing Outcome 9 and Criterion for Success: Senior exit survey results will rate questions 46 and 47 at least 5.5. Employer survey results will rate question 11 at least 4.5.