



COLLEGE OF ENGINEERING AND COMPUTER SCIENCE

Student Learning Outcomes Assessment

In the below classes, student satisfaction of Program Outcomes are assessed by the instructor completing the Departmental Student Achievement of Outcomes Forms, which are then analyzed by the Department's Assessment and Evaluation Committee.

COMMUNICATION (Written Communication, Oral Communication, Team/ Collaborative communication): Students will produce written reports and oral presentations on topics relating to computing. They will collaborate in teams to plan and execute an information engineering technology design to meet an identified need.

All students are required to complete the ISM 4042 (Social/Ethical Issues in Computing) in which they give oral presentations and submit written reports regarding ethical, social, and legal issues related to computing. Students must submit well-written reports and give presentations that are clear and effective. For the required course CET 4915 (Capstone Project), students work in interdisciplinary teams to carry through the complete design process, from conceptualization to implementation. The course evaluation provides for formal assessment of each student against specific criteria by the faculty teaching the course and by the student peers.

CRITICAL THINKING (Analytical Skills, Practical Skills): Students will demonstrate knowledge of, and proficiency in applied data structures, internet application development, and database application development.

Students must demonstrate an understanding of and the ability to deal with a broad range of computer applications including programming systems, internet systems, and database systems through skills acquired in COT 3350 (Applied Data Structures), COP 3813 (Introduction to Internet Computing) and CET 4427 (Database Application

Development). In these classes students complete programming assignments and projects ranging from simple standalone programs to complete web-based systems. These are assessed based on correctness of implemented algorithms, on code design, and on their efficient operation.

CONTENT KNOWLEDGE (Technical Skills, Declarative Skills, Technical Skills) :
Students will demonstrate knowledge of standard software engineering and project management methodologies, and be able to critically apply these methodologies in the planning and execution of a problem design to meet an identified need. They will also demonstrate knowledge and analytical skills regarding the mathematical foundations of information engineering technology.

CET 3383 (Applied Software Engineering) has to be taken after COT 3002 (Foundations of Computer Science) and COT 3002L (Lab). ETI 4448 (Applied Project Management) requires senior status. Students will demonstrate the ability to formally describe project requirements, to plan project execution according to the requirements, to track and to measure progress using industry standard tools. Students are required to complete courses in Calculus, Discrete Structures, and Statistics. In these courses students will acquire mathematical skills required of IET professionals.

REFER TO FAU'S UNIVERSITY CATALOG FOR ADDITIONAL DEGREE REQUIREMENTS