

**Department of Engineering Technology**  
**Bachelor of Science (BSEET)**  
**Electrical Systems or Information Systems Option**

Expanded Institutional Goal	Program Intended Outcome/Objective	Assessment Criteria and Procedures	Assessment Results	Use of Results
To offer the best Engineering Technology program in Florida.	<p>1. Engineering Technology graduates will be able to demonstrate communication competencies.</p> <p>1a. 80% of observed graduating seniors will exhibit satisfactory oral communication competencies</p> <p>1b. 80% of participating graduation seniors exhibit satisfactory written communication competencies</p>	<p>1a. A panel of Faculty/Industrial Advisory members will conclude that at least 80% of graduating seniors surveyed display presentation competencies using the same criteria for evaluation as used in speech courses. Data will be requested annually on 50% of graduating seniors picked at random. The panel will use ET evaluation sheets.</p> <p>1b. A panel of Faculty/Industrial Advisory members will conclude that at least 80% of graduating seniors surveyed use proper grammar, punctuation, and spelling based on inspection student papers/reports. Data will be requested annually on 50% of graduating seniors picked at random. The panel will use ET evaluation sheets.</p>	<p>An initial assessment panel composed of Engineering Technology faculty reviewed the products from student work in the Senior Design Project courses, ETG 4950C and CET 4915C for the Fall 1996 and Spring 1997 semesters. These classes represented the work of approx. 50 Engineering Technology students from all majors operating in teams composed of all majors to accomplish the assigned projects. Video tapes were made of the various student design projects and presentations so that visual documentation will be available for accrediting purposes, prospective students, parents of students and employers of graduates.</p> <p>a. After viewing the video tapes of the presentations and in some cases sitting in on the live presentations, the panel concluded that 95% of the graduating seniors observed exhibited satisfactory oral communication skills.</p> <p>b. After reviewing the reports presented with the Senior Design Projects, the members of the panel concluded that 90% of the written work presented by graduating seniors in Engineering Technology practice satisfactory written practices and answer the journalistic question of where, why, when, how, and by whom.</p>	<p>1a. Results state that the criteria is being met and no action is needed, however, if the evaluation of results suggests that more oral competency is desired, consideration will be given to adding additional instruction in presentation skills.</p> <p>1b. Results state that the criteria is being met, however, if the evaluation of results suggest that better written communication competency skills are desired, consideration will be given to adding additional instruction in communication skills.</p>

	<p>2. Engineering technology graduates will be able to demonstrate problem-solving competencies. 80% of observed graduating seniors apply the principles of problem solving abilities in senior design (capstone) course.</p>	<p>Inspection of senior project work by a panel of faculty/Industrial Advisory Board members will conclude that 80% of the graduating seniors will be able to identify, formulate, and solve open-ended, unstructured industrial problems in individual or a team environment. Data will be requested annually on a random 50% of graduating seniors beginning Spring 1997. The panel will use ET evaluation sheets.</p>	<p>Based on the review of the projects design and prototype developed by students in the Senior Design courses, ETG 4950 and CET 4915, the panel concluded that most students used proper problem solving in these senior capstone courses. It was determined that 97% of the observed graduating seniors demonstrated professional level problem solving techniques and skills during their completion of the Senior Design Projects.</p>	<p>Criteria was met, however, if the results of the reviews did not meet the criteria, certain topics should be given greater emphasis or be better integrated throughout the curriculum.</p>
	<p>3. Engineering Technology graduates will be successful in attaining professional employment. 80% of surveyed graduates will have professional employment.</p>	<p>A survey of graduates will be conducted annually by the State of Florida Education, Training, and Placement Information Program reports (FETPIP). The FETPIP will be utilized to determine if 80% of the graduates surveyed hold professional employment. A survey of 50 alumni will be conducted biannually to determine if 80% of the responding graduates who have been in the field for at least two years hold professional positions.</p>	<p>FETPIP data was not available on professional employment, but 86.36% of those surveyed were working full time. A survey of a sample of Engineering Technology alumni and their employers was conducted during the Spring of 1997 and 61% of the graduates and 33% of the employers surveyed in the sample responded. The data provided by the alumni responding indicated that 100% of the Engineering Technology graduates attain and hold professional employment.</p>	<p>Sufficient numbers of students are finding employment, criteria is met and no action is required. However, if a sufficient number of students were not finding employment, additional information will be gathered from graduates and employers to determine why graduates are not successful and what program changes can improve their chances for success.</p>

	<p>4. Engineering Technology graduates will be competitive with other BS Engineering Technology graduates from other US institutions. 80% of the graduates will be judged competitive.</p>	<p>a. An employer survey will be conducted of graduates who have been in the field 2-5 years to determine if they are competitive. A survey of 10 employers will be conducted biannually to determine if 80% of the graduates employed by the respondents who have been in the field for 2-5 years are competitive.</p> <p>b. A survey of graduates will be conducted annually by the State of Florida Education, Training, and Placement Information Program reports (FETPIP). The FETPIP will be utilized to determine if 80% of the graduates surveyed are competitive.</p> <p>A survey of 50 alumni will be conducted biannually to determine if 80% of the graduates responding who have been in the field for at least two years are competitive.</p>	<p>The results of the survey conducted of employers of UCF Engineering Technology graduates show:</p> <p>a. UCF Engineering Technology graduates who have been in the field for 2-5 years scored between 4 and 5 on a 5 point Likert scale, which is equivalent to ranking between superior and above average. This is in comparison to graduates from other BS degree programs by all of the employers responding the this question.</p> <p>b. UCF Engineering Technology graduates who have been in the field for less than 2 years are competitive with graduates from other BS programs in Engineering Technology.</p>	<p>Sufficient numbers of students are found to be competitive, criteria is met and no action is required. Otherwise, additional information would be gathered from graduates and employers to determine why graduates are not successful and what program changes can improve their chances for success.</p> <p>To ensure this continued high level of success more surveys will be done.</p>
	<p>5. Engineering Technology graduates are satisfied with their program of study. 80% of surveyed graduates will be satisfied with their program of study.</p>	<p>A survey of graduates will be conducted annually by the Office of Institutional Research. Data will be analyzed annually by Office of Institutional Research.</p>	<p>All graduates responding to this question in the survey rate the Engineering Technology Program at UCF in the Excellent or Above Average, with none rating the program in the Average or Below Average categories.</p>	<p>Criteria is met and no action is needed, however, if the criteria was not met, additional information would be gathered from graduates to determine why graduates were not satisfied and what program changes could be made.</p>