

**Program Name & CIP Code: Bachelor of Science in Computer Engineering-14.0901 Level: Undergraduate**

**Department: Electrical and Computer Engineering**

**Chair: Dr. W. B. Mikhael**

**Participating Faculty: Dr. C. Bauer**

**Dr. B.E. Petrasko**

**Dr. S. Richie**

Unit Mission	Dept./Pgm Intended Outcomes Objectives	Assessment criteria & Procedures	Assessment Results	Use of Results
<p>To offer the best undergraduate computer Engineering program in the state of Florida.</p>	<p>1. Graduates are successful in attaining employment in an area of computer engineering.</p>	<p>1.1 At least 80% of UCF graduates who seek employment in an area of computer engineering are employed or offered employment within a year of graduation as assessed by the Florida Educational and Training Placement Information Program (FETPIP) survey.</p> <p>1.2 At least 80% of graduates perceive that they are adequately prepared for employment in an area of computer engineering. Assessment is through question G of student Exit Interview Survey; questions C, D, and H of the UCF Alumni survey; and questions 37, 42, 49, and 61</p>	<p>1.1 Annual summary FETPIP findings indicate that 22 out of 24 Florida respondents (91.7%) who graduated with a Bachelors degree from UCF in this discipline were employed and working on a full-time basis.</p> <p>1.2 Data available from University survey shows a 88% level. [1]</p>	<p>1.1 Criteria met, continue to review for possible enhancement. Any FETPIP Survey results which indicate non-compliance are forwarded to the ECE Addition of EGN 1006 and EGN 1930 to curriculum to improve retention and enhance engineering design at the freshman level</p> <p>1.2 Criteria met, continue to review for possible enhancement. Any Survey results which indicate non-compliance are forwarded to the ECE Undergraduate Curriculum Committee for implementation of necessary changes to the curriculum. Begin curriculum renewal process.</p>

		of UCF University Survey.		
	2. Graduates will acquire sufficient academic competence for advanced graduate study in Master degree programs within the field of computer engineering.	2. At least half of UCF BSCPE graduates perceive that they are adequately prepared for graduate study as assessed by question F the UCF Alumni Survey.	2. Data available at the university and college levels indicated a 70% level. The goal is reached. [1]	2. Criteria met, continue to review of possible enhancement. Survey results indicating non-compliance are forwarded to the ECE Undergraduate Curriculum committee for implementation.
3. Graduates have competency in design concepts and laboratory skills.	3.1 At least 80% of graduates will report overall satisfaction with the training of the aforementioned skill at or above a 4.0 level on a 5 point scale. Assessment is through questions H, J, and T of the UCF Alumni Survey; and questions 39, 43, 44, and 60 of UCF University Survey.	3.1 Data available at the university and college levels indicated that the goal is reached at with a level of 87% [1]	3.1 Criteria met, continue to review for possible enhancement. Areas of the curriculum requiring modification are collected from the survey results. Add EGN 1930 to curriculum to give students more computer skills and freshman problem solving and design skills.	
	3.2 Student performance evaluations in the Senior Design project exceed a mean score of 80% in the areas of design concepts, laboratory skills and	3.2 Data available from the faculty panels' reports indicated that the goal is reached with a level of 85.1%.	3.2 Criteria met, continue to review for possible enhancement. Areas of the curriculum requiring modification are collected from the Senior Design	

	<p>communication ability. A committee of three faculty and an industry sponsor evaluate each Senior Design project through 8 concept, skill, and ability assessment questions.</p>	<p>4.1 At least 85% of UCF BSCpE graduates are rated by their employers as "average in comparison to graduates of other universities" or as "exceeding average in comparison to graduates of other universities."</p> <p>University Employer Survey Question D in 1994-1995 and 2, 3, and 4 in subsequent year surveys are tabulated to determine the percentage of employers responding with and "average" or "above average" rating.</p>	<p>4.1 Employers Survey questions indicate that 97.1% of the employers responded that UCF graduates are "average" or "above average." [1]</p>	<p>project evaluations. These results are reported to the ECE Undergraduate Curriculum Committee which implements changes in core courses and/or elective courses and their associated laboratories.</p> <p>4.1 Criteria met, continue to review for possible enhancement. The survey results are forwarded to the ECE Undergraduate Curriculum Committee and to the ECE Laboratory Resources Committee. Add professionalism and design components in EGN 1006. Further enhance two semester senior design class.</p>
<p>4. Graduates are perceived by their employers as being adequately prepared.</p>	<p>4.2 The ECE Industrial Advisory Board (IAB) feedback forms are reviewed to determine employer satisfaction rates.</p>	<p>4.2 Data available from the April 1998 IAB meeting shows an 93.3% satisfaction level.</p>	<p>4.2 Criteria met, except in Laboratory skills. Senior Design increased to a total of 6 credit hours. Also, the enhancement of ECE laboratories and computer</p>	

				facilities has been accelerated .
--	--	--	--	-----------------------------------

[1] With the exception of FETPIP survey, and IAB Questionnaire, all other data available are inter-disciplinary and therefore may be used for more than one program.