

Department: Electrical and Computer Engineering

Chair: Dr. W.B. Mikhael

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

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 24 out of 24 Florida respondents (100%) who graduated with a Bachelors degree from UCF in this discipline were employed and working on a full-time basis.</p> <p>1.2 Survey data indicates 94% positive responses on the student Exit Interview survey, 75% positive responses on the UCF Alumni Survey, and 83% positive responses on the UCF University Survey. This produces an aggregate mean of 84% positive responses.</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 Undergraduate Curriculum Committee for implementation of necessary changes to the curriculum.</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.</p>

		of UCF University Survey.		
	2. Graduates will acquire sufficient academic competence for advanced graduate study in Masters 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. Responses to questions F of the Alumni Survey indicate 92% perceive they were properly prepared.	2. Criteria met, continue to review for 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 skills at or above a 4.0 level on a 5 point scale. Assessment is through questions H, J, and K of student Exit Interview Survey; questions I, J, and T of the UCF Alumni Survey; and questions 39, 43, 44, and 60 of UCF University Survey.	3.1 Survey data indicates 82% positive responses on the student Exit Interview survey, 85% positive responses on the UCF Alumni Survey, and 89.6% positive responses on the UCF University Survey. This produces an aggregate mean of 86% positive responses.	3.1 Survey data indicates 82% positive responses on the student Exit Interview survey, 85% positive responses on the UCF Alumni Survey, and 89.6% positive responses on the UCF University Survey. This produces an aggregate mean of 86% positive responses.	3.1 Criteria met, continue to review for possible enhancement. Areas of the curriculum requiring modification are collected from the survey results. These results are reported to the ECE Undergraduate Curriculum Committee which implements changes in core courses and/or elective courses and their associated laboratories.
	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 communication ability.	3.2 Student performance evaluations during 1993, 1994 and 1995 had mean scores of 84.1% on questions 1 through 8 which assess these skills and abilities. These results	3.2 Student performance evaluations during 1993, 1994 and 1995 had mean scores of 84.1% on questions 1 through 8 which assess these skills and abilities. These results	3.2 Criteria met, continue to review for possible enhancement. Areas of the curriculum requiring modification are collected from the Senior Design project

		<p>A committee of three faculty and an industry sponsor evaluate each Senior Design project through 8 concept, skill, and ability assessment questions.</p>	<p>indicate continued compliance with the assessment criteria.</p>	<p>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. Graduates are perceived by their employers as being adequately prepared.</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." University Employer Survey Questions D in 1994-1995 and 2, 3, and 4 in subsequent year surveys are tabulated to determine the percentage of employers responding with an "average" or "above average" rating.</p> <p>4.2 The ECE Industrial Advisory Board (IAB) feedback forms are reviewed to determine employer satisfaction rates.</p>	<p>4.1 Employer Survey questions indicate that 97% of the employers responded that UCF graduates are "average" or "above average."</p> <p>4.2 The 23 responses from members of the ECE Industrial Advisory Board during the 1994-1995 and 1995-1996 academic years indicate employer</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. Proposals from these committees to the faculty result the required curriculum changes.</p> <p>4.2 Criteria met, except in Laboratory skills. Proposals from these committees to the faculty resulted in the permanent inclusion of 2 additional</p>

			<p>satisfaction in all areas, except for an increasing need for additional laboratory skills.</p>	<p>credit hours of Senior Design in the curriculum, for a total of 6 credit hours. Also, the enhancement of ECE laboratories and computer facilities has been accelerated through the acquisition of over 40 new Pentium PCs, 15 Sun workstations, and tens of thousands of dollars in experimental equipment.</p>
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* With the exception of FETPIP survey, all other data available are inter-disciplinary and therefore may be used for more than one program.