

Department: Civil & Environmental Engineering  
 Chair: Essam Radwan, Ph.D., P.E.  
 Participating Faculty: C. David Cooper, Shiou-San Kuo, John D. Dietz, Sashi K. Kunnath, Sherif M. El-Tawil

## Program Name & CIP Code: Civil Engineering (14.0807) Level: Bachelors

Example of Linkage between Expanded Statement of Institutional Purpose,  
 Departmental/Program Intended Outcomes/Objectives, Assessment Criteria and Procedures,  
 Results, and Use of Results at our University

Expanded Statement of Institutional Purpose	Departmental/Program Intended Outcomes/objectives	Assessment Criteria & Procedures	Assessment Results	Use of Results
<p>To offer a professional undergraduate Civil Engineering program which is competitive nationally.</p>	<p>1. Graduates will compare favorably with students from similar programs in the nation in their knowledge of the fundamentals of engineering, especially the key areas of statics and fluid mechanics.</p>	<p>1a. The two year running average of percentage of the total graduating class who pass the Fundamentals of Engineering Exam will equal or exceed the national average.            1b. In the key areas of statics and fluid mechanics our graduates will exceed the national average.</p>	<p>1a. 82% of UCF's Civil Engineering graduating students earned a passing score on the exam in 1997, compared to 81% of the civil engineering graduating class in the nation.            1b. In 1997, 54% and 61% of UCF Civil graduates passed statics and fluid mechanics sections of the FE exam, respectively, compared with 58% and 60%, nationally.</p>	<p>1a. Criteria met. We will continue to compile data for future classes.            1b. Criteria in statics not met. EI review session in statics will be instituted. Students will be informed to keep certain textbooks. Students will be supplied with EI reference manual at sophomore stage to review materials.</p>
	<p>2. Employers of graduates will express satisfaction with the academic preparation of graduates.</p>	<p>2a. At least 90% of employers of graduates will rate graduates as "average" or "above average."</p>	<p>2. For this academic year, 100% of employers who serve on the CEE Advisory Board and responded to a survey indicated that CEE</p>	<p>2. Current criteria met, no action warranted at present.</p>

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	<p>3. Graduates will produce excellent quality technical reports, which demonstrate their competence in the use of computers, writing skills, and presentation of materials.</p>	<p>3a. A committee composed of UCF faculty and external reviewers will review capstone design projects to determine if 90% of the graduates demonstrated their competence in the use of computers</p>	<p>graduates were "average" or "above average" when compared to graduates of similar programs at other universities.</p>	<p>3a. Current criteria met, no action is warranted at present.</p>
		<p>3b. A committee composed of UCF faculty and external reviewers will review capstone design projects to determine if 90% of the graduates demonstrated their competence in writing skills.</p>	<p>3a. In the Spring of 1998, a committee composed of Drs. Kuo, Cooper, Dietz and El-Tawil assessed the content of student projects from CEG 4801, CES 4709, and TTE 4601 and the students' work and agree that over 90% of students have met the criteria of competence in the use of computers.</p> <p>3b. In the Spring of 1998, a committee composed of Drs. Kuo, Cooper, Dietz and El-Tawil assessed the content of student projects from CEG 4801, CES 4709, and TTE 4601 and the students' work and agree that over 90% of students have met the criteria of competence in writing skills.</p>	<p>3b. Current criteria met, no action is warranted at present.</p>
		<p>3c. A committee composed</p>		<p>3c. Current criteria met,</p>

Version #1: Current Measures  
 (Academic Year '97-'98)

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		<p>of UCF faculty and external reviewers will review capstone design projects to determine if 90% of the graduates demonstrated their competence in presentation of materials.</p>	<p>3c. In the Spring of 1998, a committee composed of Drs. Kuo, Cooper, Dietz and El-Tawil assessed the content of student projects from CEG 4801, CES 4709, and TTE 4601 and the students' work and agree that over 90% of students have met the criteria of competence in the presentation of work.</p>	<p>no action is warranted at present.</p>
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