

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

Program Name & CIP Code: Environmental Engineering (14.1401) 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 chemistry 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.</p> <p>1b. In the key areas of chemistry and fluid mechanics our graduates will exceed the national average.</p>	<p>1. 87% of UCF's Environmental Engineering graduating students earned a passing score on the exam in 1997, compared to 77% of the environmental engineering graduating class in the nation.</p> <p>1b. 67% and 54% of UCF Environmental graduates passed the chemistry and fluid mechanics areas of the FE exam, respectively, compared with 68% and 62%, nationally.</p>	<p>1a. Criteria met. We will continue to compile data for future classes.</p> <p>1b. Criteria not met. EI review session in chemistry instituted. Students will be informed to keep certain textbooks. Students will be supplied with EI reference manual at sophomore stage to review materials. We will continue our efforts to improve on the passing rates by providing review sessions in fluid mechanics.</p>

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	<p>2. Employers of graduates will express satisfaction with the academic preparation of graduates.</p>	<p>2. At least 90% of employers of graduates will rate graduates as "average" or "above average."</p>	<p>For this academic year, 100% of employers who serve on the CEE Advisory Board and responded to a survey indicated that CEE graduates were "average" or "above average" when compared to graduates of similar programs at other universities.</p>	<p>2. Current criteria met; no action warranted at present.</p>
	<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>3a. In the Spring of 1998, a committee of Drs. Kuo, Cooper, Dietz and El-Twail assessed the student's reports for the following courses: ENV 4562, CWR 4812, and ENV 4112. The committee agreed that over 90 % of students have met the criteria of competence in the use of computers.</p>	<p>3a. Current criteria met; no action 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</p>	<p>3b. In the Spring of 1998, a committee of Drs. Kuo, Cooper, Dietz and El-Twail assessed the student's reports for the following courses: ENV 4562, CWR 4812, and ENV 4112. The committee</p>	<p>3b. Current criteria met; no action warranted at present.</p>

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

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		<p>demonstrated their writing skills.</p> <p>3c. 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 presentation of materials.</p>	<p>agreed that over 90 % of students have met the criteria of competence in writing.</p> <p>3c. In the Spring of 1998, a committee of Drs. Kuo, Cooper, Dietz and El-Twail assessed the student's reports for the following courses: ENV 4562, CWR 4812, and ENV 4112. The committee agreed that over 90 % of students have met the criteria of competence in the presentation of their work.</p>	<p>3c. Current criteria met; no action warranted at present.</p>
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