

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. 1b. In the key areas of chemistry and fluid mechanics our graduates will exceed the national average.</p>	<p>1. 50% of UCF's Environmental Engineering graduating students earned a passing score on the exam in 1996, compared to 50% of the environmental engineering graduating class in the nation. 1b. 71% and 52% of UCF Environmental graduates passed the chemistry and fluid mechanics areas of the FE exam, respectively, compared with 77% and 57%, nationally.</p>	<p>1a. Criteria met. We will continue to compile data for future classes. 1b. Criteria not met. Action taken to improve graduation statistics is to provide help sessions in chemistry and fluid mechanics.</p>

Version #1: Current Measures
(through Spring 1997)

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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>2. For the period 1994-96, 100% of employers responding 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. 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>3. 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, writing skills, and presentation of materials.</p>	<p>3. In the Spring of '97, a committee of Drs. Kuo, Cooper, and Dietz met to review student projects from ENV 4562, CWR 4812, and ENV 4112. It appears from the examples of student's work that over 90 % of students have met the criteria of competence in the use of computers, writing skills, and presentation of materials. Future reviews will include external reviewers.</p>	<p>3. Criteria met. No action warranted at present.</p>