

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: Doctoral**

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 attain prominence in key areas of Civil Engineering graduate education and research.</p>	<p>1. Graduates will demonstrate a strong knowledge base and ability in their area of specialization.</p>	<p>1a. All Ph.D. students will be required to take a comprehensive examination and to perform satisfactorily in each area.            1b. 90% of the Ph.D. students will pass the candidacy exam on their first attempt.</p>	<p>1a. Data collected during '95-'98 indicate that 100% of the 14 students who were administered the comprehensive Qualifying Exam demonstrated proficiency in each subject area.            1b. Data for '95-'98 show that 100% of the candidates taking the Candidacy Exam passed on their first attempt.</p>	<p>1. Criterion is met. No immediate action needed.</p>
	<p>2. Graduates will be able to conduct high-quality, independent research and communicate the results of their research in a professional forum.</p>	<p>2. All graduates will publish at least one refereed journal article about their Ph.D. research within 2 years of graduation.</p>	<p>2. Data was collected during the '95-'98 period and the statistics showed that 20% of all student published articles with the faculty.</p>	<p>2. Criterion is not met. Greater emphasis will be placed on dissemination of research results.</p>
	<p>3. Graduates who intend to pursue an academic post will be able to successfully</p>	<p>3. At least 80% of Ph.D. candidates will have taught one undergraduate course</p>	<p>3. For data collected during '95-'98, none of the Ph.D. graduates taught at a</p>	<p>3. Criterion not met. Need to provide more teaching opportunities for Doctoral</p>

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

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	teach at the college level.	or lab section during their time at UCF, and Student evaluations of teaching will average at least 2.5 out of 4.0.	course of lab section.	students.
	4. Graduates will be able to develop and communicate a research/project plan.	4. All Ph.D. students will write and orally present a research plan for their doctoral work.	4. 100% of Ph.D. submitted research proposals and defended them orally.	4. Criterion is met.

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

Example of Linkage between Expanded Statement of Institutional Purpose,  
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 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 attain prominence in key areas of Civil Engineering graduate education and research.</p>	<p>1. Graduates will demonstrate a strong knowledge base and ability in their area of specialization.</p>	<p>1a. All Ph.D. students will be required to take a comprehensive examination and to perform satisfactorily in each area.                      1b. 90% of the Ph.D. students will pass the candidacy exam on their first attempt.</p>	<p>1a. Data collected during '95-'98 indicate that 100% of the 9 students who were administered the comprehensive Qualifying Exam demonstrated proficiency in each subject area.                      1b. Data for '95-'98 show that 100% of the candidates taking the Candidacy Exam passed on their first attempt.</p>	<p>1. Criterion is met. No immediate action needed.                      2. Criterion is not met. Greater emphasis will be placed on dissemination of research results.</p>
	<p>2. Graduates will be able to conduct high-quality, independent research and communicate the results of their research in a professional forum.</p>	<p>2. All graduates will publish at least one refereed journal article about their Ph.D. research within 2 years of graduation.</p>	<p>2. Data was collected during the '95-'98 period and the statistics showed that 40% of all student published articles with the faculty.</p>	<p>3. Criterion not met, however, teaching effectiveness was adequate.</p>
	<p>3. Graduates who intend to pursue an academic post will be able to successfully</p>	<p>3. At least 80% of Ph.D. candidates will have taught one undergraduate course</p>	<p>3. For data collected during '95-'98, 63% of Ph.D. graduates taught at least 1</p>	