

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: Environmental Engineering (14.1401) Level: Masters

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 Environmental Engineering graduate education and research.</p>	<p>1. Graduates of the program should demonstrate the ability to produce credible research theses.</p>	<p>1a. On a scale ranking the thesis "excellent," "very good," "good," or "fair," 75% of all graduates will be ranked "good" or better. The students graduate committee during the thesis defense will conduct this assessment. Specific indices will include area specific knowledge, writing skills, and analytical or experimental skills. 1b. A similar ranking to 1a (assessment of the written thesis) will be conducted on the student's oral defense of the thesis.</p>	<p>1a&b. Three faculty members were surveyed to assess one M.S. student who graduated this academic year. The results are summarized in the attached Tables 1a and 1b. On the average, 87% of the faculty ranked this student good or better in all skills.</p>	<p>1a&b. Current criteria met; no action warranted at present.</p>
	<p>2. MS students will communicate the results of their research in a professional forum.</p>	<p>2. At least 60 % of the thesis-option graduates will publish either a refereed journal article or co-author a presentation at a</p>	<p>2. The following statistics were generated for the 1995-98 period: Refereed Articles and Conference Proceedings -</p>	<p>2. Current criteria not met. Greater emphasis should be placed on dissemination of research results.</p>

Version #1: Current Measures
(through Spring 1997)

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		<p>professional conference within 2 years of graduation.</p>	<p>40%</p>	
<p>3. Graduates will express confidence that their graduate education has improved their professional skills.</p>	<p>3a. At least 90% of graduates will "agree" or "strongly agree" that their overall professional skills have been enhanced by their graduate education.</p>	<p>3b. Input will be solicited for the specific subject areas that helped them the most and/or need improvement in their opinion.</p>	<p>3a. 100% of all responses "Agree and Strongly Agree" that their overall professional skills have been enhanced by graduate education.</p> <p>3b. <i>Subject Areas of Greatest Value:</i> Water treatment, Biological Treatment, Air Pollution Control, Groundwater Hydrology, Industrial Wastewater Treatment, and Fate & Transport of Subsurface Contamination.</p> <p><i>Subject Areas that need Improvement:</i> Increase student time in lab, introduce more "real life" applications, and offer more water resources courses.</p>	<p>3a. Current criteria almost met.</p> <p>3b. Student input was considered and course offering plans were improved. Five-year course plan was revised to include the suggestions. Course content was re-examined to include more practical examples. Arrangement was made with USF to share water resources classes via distance learning.</p>

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