



<b>Program:</b> Master of Arts in Environmental Studies	<b>Completed By:</b> Rachel Singer
<b>Department:</b> Urban Studies	<b>Date:</b> May 31, 2006

**Goal 1:** Students will demonstrate proficient understanding of the relationship between core scientific concepts, scientific research, and technology and its use in environmental policy development and implementation as evidenced by their ability as evidenced by their ability to describe and apply these concepts to specific environmental policy issue in a paper and a presentation.

Outcomes	Research Methods	Findings	Review	Actions
Relationship between science, technology and policy, as demonstrated in a policy and administration writing assignment.	Rubric to assess student performance in ENV 652 was implemented for the first time in Fall 2005.	N=10 Excellent: 70% Good: 10% Fair: 20%	MAES faculty will review data beginning in Fall 2006 and will do so each Fall thereafter.	Fall 2005 was the first time the rubric was implemented.  None at this time.
Relationship between science, technology and policy as demonstrated in a required presentation.	Rubric to assess student performance in ENV 595 final project presentation is used by two or more faculty members, including the director of the MA program.  Rubric 1B/2B/3B - Category 2: Ecological Systems and Technology	N=9  Mean score = 2.92  Excellent = 4 Good = 3 Fair = 2 Unacceptable = 0	Data are reviewed by the MAES Program Director and Department Chair. Results are reported to the MAES faculty and significant findings are discussed at the Fall faculty meeting; appropriate actions are agreed upon.	None at this time.



<b>Goal 2:</b> Students will demonstrate proficient understanding of public environmental policy-making, as evidenced by their ability to describe the institutional and organizational context in which environmental policies and decisions are made and the legal, regulatory and administrative practices by which they are implemented.				
Outcomes	Research Methods	Findings	Review	Actions
Environmental policymaking assessed through the required research project (thesis or exit project).	Rubric to assess student performance is implemented as each student completes his or her exit project.	N = 4  Mean score = 2.91 (scale: 0-4)  Good or Excellent: 75%	Results of data are reviewed by the MAES Program Director, Department Chair. Results are reported to the MAES faculty and significant findings are discussed at the fall faculty meeting, appropriate actions are agreed upon.	None at this time.
Environmental policymaking process and context as demonstrated in a required presentation.	Rubric to assess student performance in ENV 595 final project presentation is used by two or more faculty members, including the director of the MA program.  Rubric 1B/2B/3B – Category 1: Environmental Policy and Regulations and Category 3: Social and Political Factors	N = 9  Mean score = 3.21 (scale: 0-4)	Results of data are reviewed by the MAES Program Director, Department Chair. Results are reported to the MAES faculty and significant findings are discussed at the fall faculty meeting, appropriate actions are agreed upon.	None at this time.
Students assess improvement in their knowledge in a set of substantive areas.	Students assess knowledge through rubric. This rubric has been used for several years. Section 1: Knowledge on Rubric 2C/3C.	N = 4  Mean knowledge level upon entering MAES program = 2.45  Mean knowledge level upon graduating = 4.37  <b>Scale:</b> 1 = none, 5 = high	Results of data are reviewed by the MAES Program Director, Department Chair. Results are reported to the MAES faculty and significant findings are discussed at the fall faculty meeting, appropriate actions are agreed upon.	None at this time.



**Goal 3:** Students will demonstrate proficiency in research and analysis, as evidenced by their ability to the design and implement a major research project (the required exit project), use techniques of quantitative reasoning, and communicate using oral, visual and written methods.

Outcomes	Research Methods	Findings	Review	Actions
Design of the research project for its organization and written proficiency.	Student performance assessed using Rubric 2A/3A, Section 2 Skills, administered by faculty supervisor when the exit project is evaluated.	N = 4 Mean score: 2.75 (Scale: 0-4) Good or Excellent: 75%	Results of data are reviewed by the MAES Program Director, Department Chair. Results are reported to the MAES faculty and significant findings are discussed at the fall faculty meeting, appropriate actions are agreed upon.	None at this time.
Presentation organization, substantive materials, appropriate use of analytical methods, and oral and visual presentation skills are assessed.	Rubric to assess student performance in ENV 595 final project presentation is used by two or more faculty members, including the director of the MA program.  Rubric 1B/2B/3B, Category 4: Conveyance of Ideas.	N=9 Mean score = 3.07  (scale: 0-4)	Results of data are reviewed by the MAES Program Director, Department Chair. Results are reported to the MAES faculty and significant findings are discussed at the fall faculty meeting, appropriate actions are agreed upon.	None at this time.
Self-assessment of knowledge of research and analysis techniques.	Students assess knowledge through rubric. This rubric has been used for several years: Section 2: Skills on Rubric 2C/3C.	N=3 Mean skills level upon entering MAES program = 2.39  Mean skills level upon graduating = 4.15  <b>Scale:</b> 1 = none, 5 = high	Results of data are reviewed by the MAES Program Director, Department Chair. Results are reported to the MAES faculty and significant findings are discussed at the fall faculty meeting, appropriate actions are agreed upon.	None at this time.



<b>Goal 3:</b> Continued				
<b>Outcomes</b>	<b>Research Methods</b>	<b>Findings</b>	<b>Review</b>	<b>Actions</b>
Identify types of problems and questions that lend themselves to quantitative analysis, formulate hypotheses and identify the means to test them quantitatively, and explain the meaning of results. Uses rubric 3D.	Rubric to assess student performance in UST 601.	N=3  Excellent: 67% Unacceptable: 33%	Results of data are reviewed by the MAES Program Director, Department Chair. Results are reported to the MAES faculty and significant findings are discussed at the fall faculty meeting, appropriate actions are agreed upon.	None at this time.