

# MASTER OF SCIENCE ENVIRONMENTAL SCIENCE LEARNING OUTCOMES

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1. **Environmental Literacy.** Students will demonstrate their knowledge of, and the ability to analyze, diverse environmental problems representing the local, state, national and international spatial scales.
2. **Environmental Multidisciplinarity.** Students will demonstrate their understanding of the complexity of environmental processes and problems, and an understanding of why environmental science is a multidisciplinary endeavor that draws from the natural and social sciences.
3. **Written and Oral Communication.** Students will demonstrate their ability to describe research and to summarize research results in essays, written reports and oral presentations.
4. **Scientific Research.** Students will perform in-depth scientific research, incorporating literature reviews; hypothesis formulation and testing; data collection and analysis, and critical reasoning.
5. **Thesis Writing.** Students will demonstrate the ability to author an original, in-depth, scientific research monograph (the thesis).
6. **Professional Preparation.** Students will work on research projects and hone research skills toward their mastery of environmental science, particularly in the urban setting. The thesis research project prepares students for doctoral programs and/or the environmental workforce, and can be used as examples of the knowledge and expertise that they could bring to prospective employers.