

ECOLOGICAL RESTORATION AND RESOURCE MANAGEMENT

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PROGRAM DESCRIPTION

Ecological Restoration and Resource Management is an applied environmental science, which addresses the restoration and management of natural resources by the practical application of science, design and technology. Its basis lies in an understanding of ecological principles and technical aspects of restoration practices. The program focuses on the rehabilitation and ecological restoration of lands disturbed or degraded by various human activities such as mining, timber management, construction, and agriculture; and includes the preservation, conservation and restoration of our natural and cultural heritage.

PROGRAM MISSION

The mission of the Ecological Restoration and Resource Management program is to promote environmental awareness and actions through interdisciplinary instruction and outreach. Its goal is to help protect, restore and conserve the environment for future generations.

PROGRAM OBJECTIVES AND STUDENT LEARNING OUTCOMES

Graduates of the program will:

- Describe resource management and ecological restoration activities and outcomes and explain their importance to a wide range of audiences
- Characterize and apply interdisciplinary knowledge, skills and ethics necessary to restore and manage cultural and natural landscapes
- Apply site analyses techniques to predict and assess difficulties and challenges unique to a given ecological restoration site
- Compare and evaluate the roles and responsibilities of stake holders such as agencies, groups and organizations engaged in land management and ecological restoration
- Apply the skills to plan, design and construct an ecological restoration project
- Analyze and evaluate the reclamation/restoration results and the efficacy of methods and materials used in ecological restoration project management
- Demonstrate knowledge and perform administrative and technical tasks of ecological restoration project management

Within the major, a student may elect to focus upon an emphasis or choose a minor. The emphasis areas arise from the general division of emphases at the professional level. The technical/physical emphasis is closely allied with physical geography, geology and civil engineering, whereas the biological emphasis is closely allied with ecology, soils, agriculture and natural sciences. It is possible to obtain a double major in one of the closely related fields while completing requirements for the major. Students who elect this major should have an aptitude for the natural and physical sciences, technology and design, and a strong commitment to the environment.

MAJOR

- Ecological Restoration and Resource Management Major, B.S. (<http://catalog.uwplatt.edu/undergraduate/business-industry-life-science-agriculture/agriculture/ecological-restoration-resource-management/bs/>)
 - Biological Emphasis
 - Technical/Physical Emphasis

FOUR-YEAR PLAN

- Ecological Restoration and Resource Management Major, B.S., Four-Year Plan (<http://catalog.uwplatt.edu/undergraduate/business-industry-life-science-agriculture/agriculture/ecological-restoration-resource-management/bs/four-year-plan/>)