RECLAMATION, ENVIRONMENT AND CONSERVATION

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PROGRAM DESCRIPTION
Reclamation, environment and conservation (REC) 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 both ethics and sound management of the planet. REC is a natural adjunct to land use activities such as mining, timber management and grazing; construction, development and agriculture; and includes the preservation, conservation and restoration of our natural and cultural heritage.

PROGRAM MISSION
The mission of the REC 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 REC program will:

- Describe land management and reclamation/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 reclamation/restoration site
- Compare and evaluate the roles and responsibilities of stake holders such as agencies, groups and organizations engaged in land management and reclamation/restoration
- Apply the skills to plan, design and construct a reclamation/restoration project
- Analyze and evaluate the reclamation/restoration results and the efficacy of methods and materials used in reclamation project management
- Demonstrate knowledge and perform administrative and technical tasks of reclamation project management

The interdisciplinary courses in the REC program are established and coordinated by the director and a council comprised of faculty across the university. Within the REC major, a student may elect to focus upon a physical, biological or chemistry emphasis. This division arises from the general division of emphases at the professional level. The physical emphasis is closely allied with 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 REC major. Students who elect a major in REC should have an aptitude for science, engineering, technology and design, and a strong commitment to the environment.

MAJOR

  - Physical Emphasis
  - Chemistry Emphasis
  - Biology Emphasis