

RECLAMATION (RECLAM)

RECLAM 1010 Introduction to Reclamation & Restoration 3 Credits

The basis for reclamation and restoration in ethics and practice. Applications of science, agriculture, engineering and law in reclamation and restoration problems answered through lecture and field presentations made by the major faculty members of the reclamation, environment and conservation program and guest speakers from the profession.

Components: Laboratory, Class

RECLAM 3010 Current Topics in Reclamation and Restoration 1-3 Credits

Selected topics from current land reclamation restoration ecology problems examined in a seminar setting with some field presentations.

Components: Class

Prereqs/Coreqs: P. BIOLOGY 3450 or RECLAM 1010 or consent of instructor

RECLAM 3020 Reclamation Revegetation 3 Credits

Selection and identification of adapted herbaceous and woody species for reclamation, site revegetation, and planting methods. Restoration techniques for design, construction and maintenance of wetlands, prairie, woodland, and riparian habitat.

Components: Laboratory, Class

Prereqs/Coreqs: P. BIOLOGY 3450 or RECLAM 1010 or consent of instructor

RECLAM 3410 Wetland Ecology, Restoration and Management 3 Credits

In-depth study of wetland communities, including composition, distribution, function, ecology and hydrology. Wetland delineation, regulation, mitigation and restoration. Techniques to improve restoration success and long-term management. Analysis of hydrology within the context of wetland restoration and management.

Components: Class, Field Studies, Laboratory

Prereqs/Coreqs: P. SCSCI 2230 or consent of instructor

RECLAM 3750 Reclamation Internship 3-6 Credits

Supervised experiential learning opportunities in collaboration with businesses and public agencies related to reclamation, environment and conservation.

Components: Field Studies

Prereqs/Coreqs: P. 45 credits completed or IP and 12 credits of RECLAM completed or IP and good standing, and approval of internship coordinator

RECLAM 3850 Pre-Capstone Seminar in Plant and Soil Sciences 1 Credit

This course will instruct students in the formation of a proposal for their capstone experience/project. Students will engage in professional development activities.

Components: Seminar

Cross Offering: ENVHORT 3850, SCSCI 3850

Prereqs/Coreqs: P. SCSCI 1240 / ENVHORT 1240 or RECLAM 1010, and junior standing, or consent of instructor

RECLAM 3880 Environmental Law 3 Credits

A study of historical concepts and common law rules and their effect on the development of environmental law; examination of state and federal statutes, regulations and case law relating to land use, pollution control and preservation of natural resources; exploration of the legal frontiers of environmental protection and restoration.

Components: Class

Prereqs/Coreqs: C: four credits of lab science and junior standing

RECLAM 3900 Reclamation & Restoration Field Trip 3 Credits

A field trip of approximately two-week duration taken during summer or spring interim to major land reclamation and restoration ecology projects and research centers. The trip is run in successive years to different regions of the United States. The role of local, state, and federal governments and private industry in reclamation and restoration is studied through numerous site visits. The keeping of a photographic log and journal is required. One trip is required of all Reclamation, Environment and Conservation majors.

Components: Field Studies

Prereqs/Coreqs: P. sophomore standing or consent of instructor

RECLAM 4310 Capstone Experience in Plant and Soil Sciences 3 Credits

A capstone course for students in their last year of study focused on solving practical agronomic, horticultural, or environmental problems using knowledge and skills gained through coursework and experience.

Components: Practicum

Cross Offering: ENVHORT 4310, SCSCI 4310

Prereqs/Coreqs: P. ENVHORT 3850 / SCSCI 3850 / RECLAM 3850 and Junior Standing or Consent or Instructor

RECLAM 4920 Independent Study 1-3 Credits

Independent research project with a written report or paper required. Done under supervision of a faculty member.

Components: Independent Study

RECLAM 4940 Project Management in Reclamation and Restoration 3 Credits

Project management concepts are applied to environmental and conservation-related issues and activities. Concepts include definitions, role of project manager, project life cycle, project control cycles, project management tools, project team and organizational factors, and plan implementation. Leadership, team building and communication skills are emphasized through service learning projects, written reports, and presentations.

Components: Class

Prereqs/Coreqs: P. Junior standing or consent of instructor