ENVS 274L: Intro to Ecosystem Restoration

Introduction to ecological restoration of damaged ecosystems. Examines current techniques of restoration and the complex ecological interactions that must be addressed. Explores the social, philosophical, biological, political, and regulatory forces that impact the success of restoration projects. (E)

Course Student Learning Outcomes

1. Conduct a scientific assessment of a restoration context in a logical and appropriate manner.
2. Demonstrate application of the basic themes and concepts of ecology, including ecology of individuals, limiting factors, growth and development, species interactions, succession, and ecological context.
3. Demonstrate understanding of the basic social and philosophical context of restoration activities.
4. Demonstrate understanding of the interactions between ecological and social factors that can influence restoration practices.
5. Demonstrate understanding of the process of restoring degraded ecosystems.
6. Correctly read and interpret restoration-relevant information in books, journals and the media by distinguishing between suitable and unsuitable sources.
7. Apply practical skills toward active implementation of acquired knowledge.
8. Process information and experiences in the form of lab write-ups and projects, and demonstrate an ability to synthesize concepts, facts and ideas into coherent, independent work.
9. Discuss and express ideas and information, applying what they have assimilated from readings, laboratory experiences and field work.
10. Build a foundation for further study and educated decision-making in environmental science.

Credits: 5
Prerequisites: BI0L& 221L or BI0L& 100L; eligibility for ENGL& 101 and MATH 098/099.
Program: **Environmental Science**