

**Student Learning Outcomes**  
**Professional Science Masters in Ecosystem Management**  
**Department of Biology**  
**University of Northern Iowa**

**Content Knowledge**

1. Students will demonstrate understanding of the linked nature of social and ecological systems across space and time, as defined by professionals in the field of ecosystem management
2. Students will demonstrate understanding of modern ecological theory as it applies to natural resources ecology and management
3. Students will demonstrate understanding of major environmental policy, how it is administered, and areas of current debate and controversy
4. Students will have introductory-level familiarity with basic organizational management principles

**Skills**

1. Students will be able to assess a site for ecological restoration and management, and develop a workable site plan including, at minimum, useful maps, a scientifically defensible native plant species list, and plans for site preparation, seeding techniques, invasive species prevention/suppression, and ongoing monitoring and management that reflect recognized best management practices
2. Students will be able to work with a team of professionals and fellow students, in collaboration with scientists and non-scientists in the community to complete an extended, year-long project in ecosystem management
3. Student will meet standards of professional excellence in communication, analysis, reliability, and teamwork.