Syllabus

CON 122 Introduction to Applied Field Techniques

General Information

Date
March 8th, 2019

Author
Robert Wink

Department
Conservation

Course Prefix
CON

Course Number
122

Course Title
Introduction to Applied Field Techniques

Course Information

Credit Hours
3

Lecture Contact Hours
2

Lab Contact Hours
2

Other Contact Hours
0

Catalog Description
Introduction to Applied Field Techniques is designed to train students in the use of standard sampling methods and equipment currently used to measure and or assess a variety of terrestrial and aquatic ecosystems. Students will collect and analyze field data using standard protocols and present their results in a variety of ways.

Prerequisites
None

Co-requisites
None

Course Learning Outcomes

Course Learning Outcomes

1. Describe foundational terminology and concepts associated with terrestrial and aquatic ecosystems and sampling.
2. Execute standard ecological sampling procedures.
3. Exercise the steps of scientific method from the initial stages of collecting observations, to building hypotheses.
4. Analyze and report data in standardized format.

Program Affiliation

This course is required as a core program course in the following program
AAS Natural Resources Conservation

Outline of Topics Covered

I. Introduction to map and compass

II. Standard sampling designs
   a. Simple random
   b. Systematic
   c. Stratified

III. Sampling methods for terrestrial environments
   a. Woody and non-woody plant communities
   b. Soils

IV. Sampling methods for wetlands
   a. Delineation of wetland community boundaries

V. Sampling methods for aquatic environments
   a. Ponds and stream communities