

Course Objectives/Course Outline
Spokane Community College

Course Title: Wildlife Techniques

Prefix and Course Number: ENVS 227

Course Learning Outcomes:

By the end of this course, a student should be able to:

My objective is to provide the knowledge and skills needed to conduct ecological sampling of selected habitats, species, and communities. Emphasis will be placed on sampling theory and familiarization with the techniques commonly used by field technicians working in wildlife research and monitoring efforts. Expectations are that by successfully completing this course, you will be able to:

- independently develop a sampling approach for a given fish/wildlife sampling objective
- efficiently, effectively, and safely conduct field sampling exercises
- understand and be able to apply basic statistical approaches used in field sampling
- be able to compile, analyze, and report results from field sampling exercises
- use equipment and technologies commonly used by fish and wildlife technicians
- use spreadsheets to develop datasheets, record data for analysis, and graphically display results of sampling

Course Outline

- I. Natural History observation
- II. wildlife health and disease
- III. Conservation genetics
- IV. Vegetation analysis
 - A. Sampling applications
 - B. Habitat use and preference
 - C. Histological analysis
- V. Applications of radio telemetry data
- VI. Population estimation
 - A. Applications of data
 - B. Harvest management
 - C. Conservation of populations
- VII. Wildlife damage management
 - A. Assessment
 - B. mitigation
- VIII. Urban wildlife management
- IX. Habitat conservation planning
- X. Wildlife, the public, and communication
 - A. Literature searching and use
 - B. Use and application of statistics
 - C. Presentations and the public