

**Course Objectives/Course Outline
Spokane Community College**

Course Title: Wildlife Biology

Prefix and Course Number: ENVS 207

Course Learning Outcomes:

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

- explain ecological principles affecting wildlife species
- identify wildlife habitat requirements and limiting factors
- classify animals and explain basic genetics
- identify basic wildlife management principles
- identify agencies involved with wildlife management

Course Outline:

- I. Introduction
 - A. Mammal Skull Characteristics
 - B. Dental Formulas
 - C. Skull Comparisons of Various Genera
- II. Introductory Concepts
 - A. Reasons for Wildlife Management
 - B. Ecological Concepts
 - C. Microhabitat
- III. Ecological Concepts
 - A. Energy Transfer in Food Chain
 - B. Laws of Thermodynamics
 - C. Tropic Levels
 - D. Primary Producers-Consumers
 - E. Secondary and Tertiary Produces and Consumers
 - F. Herbivore
 - G. Carnivore
 - H. Omnivore
- IV. Ecological Concepts of Food
 - A. Flora, Chlorinated Hydrocarbon and Organophosphate Insecticides
 - B. Food Requirements
 - C. Supplemental Feeding
 - D. Improvement of Habitat Conditions
 - E. Importance of Cover
 - F. Manipulation of Plant Succession
- V. Food Requirements
 - A. Carnivore and Herbivore
 - B. Browse Line
 - C. Measurements of Nutritional Values of Plants

VI. Water and Cover Requirements

- A. Law of Interspersion
- B. Edge Effect
- C. Law of Minimum
- D. Carrying Capacity
- E. Species Mobility
- F. Macro-Micro Nutrients

VII. Succession.

- A. Biotic or Ecological
- B. Successional Relationships between Plants and Animals
- C. Climax Community
- D. Complex Communities