

Discipline: Agriculture	Sub-discipline: Forestry/Natural Resources
General Course Title: Principles of Wildlife Management	Min. Units: 3 Semester
Proposed Suffix: L	
<p>Course Description: The study of plant and animal ecology in relation to principles of wildlife management with an emphasis on identification, sexing and aging criteria, wildlife population dynamics, wildlife habitat, and a review of trapping and marking techniques. Laboratory required.</p>	
Required Prerequisites or Co-Requisites ¹	
Advisories/Recommended Preparation ²	
<p>Course Objectives: <i>At the conclusion of this course, the student should be able to:</i></p> <ul style="list-style-type: none"> • Identify the common wildlife using keys and reference books • Demonstrate the basic requirements of Western fish and wildlife. • Evaluate the use of various wildlife management techniques involved in habitat modification and population estimation. • Evaluate specific tools to determine fish and wildlife population numbers. • Differentiate between several wildlife management concepts and select an appropriate one when given a set of criteria. • Prepare and present a quality report or powerpoint presentation about the life history of an assigned wildlife species • Evaluate the role of human's impact on wildlife management. • Evaluate the role of wildlife management in endangered species recovery • Describe life history of wildlife species 	
<p>Course Content:</p> <ol style="list-style-type: none"> 1. Introduction <ol style="list-style-type: none"> a. Neglect and Exploitation b. History of Wildlife Management c. California Fish & Game 2. California Wildlife <ol style="list-style-type: none"> a. Bird Topography & Feather Morphology b. Common Birds of California c. Common Mammals of California d. Fish of California e. Field trip to Wildlife Refuge 3. Wildlife Ecology <ol style="list-style-type: none"> a. Ecological Niche b. Wildlife Behavior c. Home range vs. territory d. Dispersal and Migration e. Food and Cover f. Competition g. Predation 4. Wildlife Populations <ol style="list-style-type: none"> a. Population Structure b. Natality and Mortality c. Sex and Age ratios d. Population Dynamics <p>Principles of Wildlife Management (Content Continued)</p>	

¹ Prerequisite or co-requisite course need to be validated at the CCC level in accordance with Title 5 regulations; co-requisites for CCCs are the linked courses that must be taken at the same time as the primary or target course.

² Advisories or recommended preparation will not require validation but are recommendations to be considered by the student prior to enrolling.

5. Wildlife Habitat Management
 - a. Succession
 - b. Forest management for wildlife
 - c. Managing rangelands for wildlife
 - d. Identifying limiting factors
6. Techniques
 - a. Collecting & Preserving specimen
 - b. Record keeping and field journals
 - c. Sexing Criteria
 - d. Aging Criteria
 - e. Trapping techniques
 - f. Banding and Marking techniques
 - g. Food Analysis
7. Wildlife Diseases
 - a. Why study wildlife diseases
 - b. Parasites and pathogens
 - c. Diseases and habitat
8. Hunting and trapping
 - a. General theory of harvesting animals
 - b. Managing for the hunter
 - c. Minimizing conflicts
9. Biodiversity and Conservation Biology
 - a. Wildlife in Parks and Refuges
 - b. Overpopulation
 - c. State and Federal Refuges and Wildlife Areas
 - d. Urban Wildlife
 - e. Exotic species
 - f. Non game and Endangered species management
 - g. Preventing extinction
 - h. Role of Conservation Biology in wildlife management
 - i. Successful examples of recovery
 - j. Status of Wildlife conservation world wide
 - k. Island Biogeography
 - l. Habitat corridors and fragmentation
 - m. Cites
 - n. Wildlife as a public trust

Laboratory Activities: Individual Laboratory Activities are designed to support course objectives.

Methods of Evaluation: Lecture Comprehensive Quizzes and Exams Written Critical Thinking Scenarios Problem Analysis and Solution Research and Term Papers	Methods of Evaluation: Laboratory Laboratory Skill Validation by Observation Laboratory Reports Laboratory Research Projects and Reports Laboratory Skill Practicum Exams
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Typical Textbooks, Manuals, or Other Support Materials

Principles of Wildlife Management, Wiley, John and Sons, Bailey, J.A., 1984.

Wildlife Ecology and Management, 4th ed., Bolen, E.G. and Robinson, W.L., Prentice-Hall, 1999.

Wildlife Ecology and Management, Caughley, G. and Sinclair, A.R.E., Blackwell Science, 1994.

Wildlife Management., Giles, R.H. Jr., W.H. Freeman and Co.,

Web Sites	<p>1978. <u>A Sand County Almanac</u>, Leopold, A. New York, 1966. <u>Wildlife Ecology</u>, Moen A.N., W.H. Freeman, 1974. <u>Wildlife Management Techniques</u>, Schemnitz editor, The Wildlife Society,</p> <p>Mammal Natural History http://ron.nhm.ukans.edu/mammals/start.html Bird Identification http://www.mbr-pwrc.usgs.gov/Infocenter/infocenter.html The Wildlife Society http://www.wildlife.org/ Link to NR directory http://www.foresthealth.org/directory.htm CA Dept. of Fish & Game http://www.dfg.ca.gov/ U.S. Fish & Wildlife Ser. http://www.fws.gov/</p>
<p>Statewide Articulation: Currently articulated to universities as specific equivalent by individual community colleges, additional statewide course equivalency articulation currently underway, also currently transfers as lower division elective</p>	
FDRG Lead Signature:	Date:
Mark E. Bender, PhD CSU Stanislaus	
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