I. Catalog Information

ESCI 57  Wildlife Corridor Technician: Advanced Tracking  2 Unit(s)

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.

Six hours laboratory.

Advanced tracking field studies lab course exploring wildlife movement and activities along the 37th parallel (Santa Cruz Mountains through the Diablo Range). Apply the principles of wildlife corridor technology to assist in the preservation, protection and restoration of native species and ecosystems.

II. Course Objectives

A. Analyze the movement and activity of wildlife species.
B. Analyze the core corridor areas utilized by wildlife species.
C. Compare and contrast the key stakeholders impacted by wildlife corridor movement.
D. Analyze and synthesize strategies using these advanced tracking techniques to preserve, protect and restore native species and ecosystems, utilizing a collaborative process, which includes diverse community groups.

III. Essential Student Materials

None

IV. Essential College Facilities

Kirsch Center for Environmental Studies

V. Expanded Description: Content and Form

A. Analyze the movement and activity of wildlife species.
   1. Field studies tracking techniques to assess wildlife movement
   2. Field studies tracking techniques to assess wildlife habitat use and activity patterns
B. Analyze the core corridor areas utilized by wildlife species.
   1. Identify and map key areas utilized
   2. Record locations using technology-based equipment
   3. Coordinate findings with relevant resource agencies and other interested partners.
C. Compare and contrast the key stakeholders impacted by wildlife corridor movement.
   1. Resource agencies
   2. Nonprofits
   3. Academic institutions
   4. Community leaders
   5. Business and industry
   6. The public.
D. Analyze and synthesize strategies using these advanced tracking techniques to preserve, protect and restore native species and ecosystems, utilizing a collaborative process, which includes diverse community groups.
   1. Nonprofit groups
   2. Local schools and other academic institutions.

VI. Assignments
A. Written journal entries on wildlife corridor technology
B. Group project
C. Group discussions of current related readings

VII. Methods of Instruction

- Lecture and visual aids
- Discussion of assigned reading
- Discussion and problem solving performed in class
- In-class exploration of Internet sites
- Homework and extended projects
- Field observation and field trips
- Guest speakers
- Collaborative learning and small group exercises
- Collaborative projects
- Laboratory experience which involve students in formal exercises of data collection and analysis

VIII. Methods of Evaluating Objectives

A. Written assignments
B. Student group project

C. An one-hour final team assessment that will require students to demonstrate the ability to summarize, integrate and critically analyze principles and concepts utilized

IX. Texts and Supporting References

A. Examples of Primary Texts and References


B. Examples of Supporting Texts and References


X. Lab Topics

- Field tracking techniques
- Wildlife movement and activity patterns
- Wildlife habitat use patterns
- Core habitat areas for wildlife
- Core corridor areas for wildlife
- Mapping techniques and protocol
- Data collection techniques
- Field etiquette protocol
- Communication skills related to wildlife field studies