



Graduate Course offered at UC Davis - Winter 2010

# *Applied Ecological Genetics*

Genetics for Ecology, Health, and Conservation  
of Natural Populations (ECL242/PHR242)

Come join us for an exciting course!

**This course will help you to build skills and knowledge to develop the best question for your ecological genetic project, write a solid grant proposal to get it funded, and successfully launch your ecological genetics research.**

*Great course for students interested in:*

- *applying genetic techniques for ecological questions.*
- *pursuing conservation ecology career – genetics is increasingly a key conservation tool.*

**Objectives:** guide students to gain a fundamental understanding of genetic principles and of the uses of molecular and quantitative genetic data for applied and basic research, wildlife conservation, and natural resource management in fields including, but not limited to, conservation ecology, population biology, wildlife health, disease ecology, and veterinary medicine.

## Topics

- **Sampling techniques**
- **Markers and lab techniques**
- **Data analysis**
- **Study design**
- **Genetics of endangered species; invasive species**

*...and much more! ... covered in lecture, lab, and discussions*

***Mondays and Wednesdays 2:10-4pm Winter quarter 2010***

***Email to receive CRN (enrollment limited) or ask questions:  
[hbernest@ucdavis.edu](mailto:hbernest@ucdavis.edu)***

**See <http://www.vetmed.ucdavis.edu/vgl/wildlife/teaching.html>**

**Instructor:** Holly Ernest DVM PhD. Asst Professor of Genetics for Wildlife Population Health