

Conservation Biology Lab (ECOL 406L/506L)

aka GEOS 406L/506L, RNR 406L/506L
(subject to change)

Introduction

Welcome to Conservation Biology Laboratory. This one-unit course is designed to introduce you to some of the issues, tools, and local areas relevant to conservation biology.

Instructor

Kevin E. Bonine, Ph.D.

office: Biological Sciences East (BSE) 1D (in the basement)

Office Hours in BSE 1D Wed. 1300-1400h and Thurs. 1400-1500h, or by appointment.

Office phone: 626-0092, Home phone: 751-1349 (please call before 9pm or after 6am)

email: kebonine@u.arizona.edu

Teaching Assistant

Kathy Gerst

Office hours in BSW 501 1400-1500h and by appointment. Extra hours to be added during periods of high demand.

Contact information: katgerst@email.arizona.edu

Meeting Times

Friday 0900-1150h. Scheduled to meet in KOFFL 410 but see syllabus for actual meeting location each week. Also see lab schedule for lengthened labs and multi-day trips.

Web Site

We will maintain a course website (follow http://eebweb.arizona.edu/eeb_course_websites.htm) with updated announcements, readings, etc.

406L Course Work

Attendance / Participation	205 points
Short Summaries (10 points each)	30 points
Oral Presentation (40 points + 10 points for 1-page handout)	50 points

Total Points: 285

Graduate Student 506L Course Work

Same as 406L with the addition of:

Propose and create a well-developed lab for teaching conservation biology. You should choose a site and a subject that would be appropriate for use as an educational tool for this 406/506 lab. Pretend you are creating a teaching lab experience for this class – hopefully it will get put to use in a future year. Your lab should consist of a relevant handout, references, and proposed itinerary (50 pts). 506L total points are, therefore, 335 points.

Course Work Details

During the semester, please choose three lab meetings to summarize by turning in a short (not more than one page) written piece about the importance and relevance of the lab exercise to conservation biology and your training as a conservation biologist. Please turn this in on the Tuesday following the lab you are summarizing. Each of the 3 will be worth 10 points, for a total of 30 points.

Oral Presentation:

At the last meeting of the semester you will have the opportunity to propose a conservation biology-related project. Please prepare a Powerpoint presentation of 8 minutes and tell your peers about where, why, what, and how you would positively affect conservation biology. Your proposal may be more focused on science, policy, management, or education depending on your strengths and interests. Remember, you are trying to convince the audience that this is a good idea, and one that should be pursued, so please prepare a bit of background and rationale, discuss the interested parties that will have to be involved, the merits of the proposal, and how you think it could be successfully implemented. Along with your oral presentation please bring a one page handout for each member of the audience. This handout should identify, in bulleted or outline form, what you are presenting and provide some references for audience members to pursue if they wish.

Attendance

You are expected to attend each lab ready to contribute, prepared to participate, and having read the appropriate material.

Grading

Summary assignments are due *no later than the beginning of lecture* on the due date. Late assignments will be penalized 10% for each day they are late (including being late to lecture).

Please try to attend all the labs. Lab make-ups will be permitted under the following conditions:

1. The instructors approve of the reason for the missed lab.
2. The student submit within ten days of the missed lab, a written report relevant to the location and the topic missed...

A maximum of 3.3 points of attendance can be made up per page of typewritten (double-spaced 10-12 point font, 1 inch margins) report. For example, if you miss the 10 Sept. trip to the Rillito you will be able to earn up to the maximum of 10 points for participation/attendance by writing a report that discusses NEPA, the Rillito River, local freeway proposals, and includes appropriate references. If you miss a trip worth 20 points a report that might get maximum credit would have to be 6 pages long. We will grade these papers and award them letter grades and adjust the points "recovered" accordingly.

We realize that you have lives (cars do break down, people die, stuff happens). In exceptional cases, and if arrangements are made in advance, we will consider your unique situation.

Grades will generally be distributed as follows (any curving will not be "against you"):

≥ 90% A 80-89% B 70-79% C 60-69% D ≤ 59% F

Any student with a documented disability who feels they may need academic adjustments or accommodation is requested to speak with the instructor by the 2nd week of class. All related discussions will remain confidential. Students should contact the S.A.L.T. Center for Learning Disabilities (Old Main, Room 135; 621-1242) or the Center for Disability Related Resources (2nd and Cherry; 621-3268) prior to discussions with the instructor. These offices will verify the need for special services.

Safety and Preparedness

Please come to lab prepared for the weather (sun, rain, wind, cold, etc.) with enough food, water, clothing, and sun protection to enjoy the outing. Close-toed shoes, pants, long-sleeve shirts and hats are highly recommended for a safe and enjoyable trip. Real dangers, including scorpions, rattlesnakes, cactus spines, etc. should be kept in mind. These threats are actually enjoyable given the appropriate precautions, preparations, and attitude.

Conservation Biology Lab Schedule 2004, Meets Friday 9-noon (14 potential meetings)

- 27 Aug. Tumamoc Hill and Introduction, **VAN**
ecological research, study plots, geology, Tucson basin, desert vegetation, introductions and schedules
(10 points)
- 03 Sept. No lab (Labor Day on 06 Sept.)
- 10 Sept. Rillito and NEPA, **VAN**
(10 points)
- 17 Sept. Tucson Mountain Park, diversity indices, **VAN**
(10 points)
- 24 Sept. Computer Time: Island Biogeography, Population Growth, **COMPUTER LAB (meet in ECE206)**
(10 points)
- 01 Oct. Mt. Lemmon **all day**, **VAN**
leave campus 0700h
Rex Adams and graduate student representative from Lab of Tree-Ring Research
(20 points)
- 08 Oct. San Pedro and Chiricahuas, **2 day**, **VAN** 08-09 Oct.
leave campus 0600h
Valere and Joe Austin
meet in Douglas 0930h with Valere on Friday 08 Oct
Mrs. Valere Austin will take us around on the 8th at San Bernardino ranch in Mexico and then
Nogalito (part of Cajon Ranch) and then back to Coronado to cookout and camp (USFS land) in the
evening. In the morning of the 9th she can show us around Coronado. Stop at San Pedro House on
way home.
(40 points)
- 15 Oct. Sewage Treatment / Santa Cruz / Sweetwater Wetland (**extra time?**), **VAN**
(10 points)
- 22 Oct. Computer Time: MVP, Sea Turtle Populations, **COMPUTER LAB (meet in ECE206)**
(10 points)
- 29 Oct. Crecencio Elenes and TerraCycle Farm (**extra time**), **VAN**
meet in Rio Rico at 1000h for talk from Crecencio, labor 1100-1200h, lunch 1200h, campus 1400h
(15 points)
- 05 Nov. No lab
- 12 Nov. No lab (Veteran's Day on 11 Nov.)
- 19 Nov. Organ Pipe, Pinacate, CEDO, **3 day**, **VAN** 19-21 Nov
leave campus 6am on Friday 19 Nov., return evening of Sunday 21 Nov.
(60 points)
- 26 Nov. Thanksgiving Holiday – No lab
- 03 Dec. Oral Presentations in **KOFFL 410**, PROJECTOR for powerpoint
(10 points,)

For field trips involving **vars** we will meet at the appointed time on the south side of BSE (4th and Highland).

Tentative Organ Pipe/Pinacate/CEDO itinerary:

Students will be asked to pay for some of the food and lodging costs incurred in Mexico.

Friday 19 November

- 0600 depart
- 1000 meeting with Organ Pipe staff
- 1200 lunch picnic
- 1300 drive to Quitobaquito
- 1400 short hike
- 1530 cross border into Sonora, Mexico
- 1700 set up camp in Pinacate

Saturday (check tide charts) 20 November

- 0600 explore pinacate, breakfast on the go
- 1030 break camp
- 1200 lunch in Puerto Penasco
- 1330 arrive CEDO
- 1400 CEDO presentation
- 1500 explore beach and tide pools
- 1730 dinner at CEDO

Sunday 21 November

- 0600 explore beach and tide pools
- 0900 leave CEDO
- 0930 explore Puerto Penasco, talk to fishermen
- 1100 eat in Puerto Penasco
- 1200 leave for Tucson
- 1600-1700 arrive Tucson

Overnight Trip Supplies:

- Sleeping bag
- Gear for cooler weather
- Collapsible sleeping cot or sleeping pad
- Toiletries
- Utensils, bowl/plate, mug or nalgene bottle
- Lantern (optional or share)
- Tent (optional or share) or rain protection
- Campstove (optional or share)
- A little bit of \$\$

For trips we will discuss ahead of time what meals to bring and tally up what supplies people are bringing to conserve vehicle space.

Please note that the university does not provide medical coverage for students who might be injured in class field trips. You should get personal medical coverage if you do not already have it. **No alcohol or illegal drugs are permitted on field trips.**