



Recommended Course	ENVS 144 is an excellent course for undergraduate and graduate students pursuing an <i>environmental restoration, wildlife resource management, energy, water quality, open space &amp; recreation, environmental education, or coastal resource management</i> focus in the ENVS Department. The course is also strongly recommended for any student or general citizen that lives in California and has an interest in learning about [and hopefully working towards conserving/preserving] California's environmental wetland heritage. It is also recommended for anyone interested in <i>nature and conservation photography</i> because the course provides you with an opportunity to get out and further refine your photographic skills.
--------------------	---

## Course Description and Requisites

Impact of agriculture, urbanization and other human land uses upon the California coastal wetlands with emphasis on current environmental problems and controversies. State public agencies concerned with vital environmental problems and analysis of current environmental legislation. May be repeated for a maximum of 8 units.

Prerequisite: ENVS 1 or instructor consent.

Misc/Lab: Lecture 2 hours/lab 4 hours.

Letter Graded

## \* Classroom Protocols

### How the Course Will Operate

There will be class discussions via Zoom on most Mondays. Introduction 3 weeks); Wetland Signups and Independent Field Research (4 weeks); Student Photo/Video Field Project Presentations (6 weeks); Reflecting Back: Comparisons, Analysis and Conclusions (1 week). You will be evaluated on Seminar Performance (45%); Photo/Video Field Project Presentation (45%); and Intangibles (10%).

### Questions You Need To Ask Yourself Before Enrolling

- (1) Are you an *academically mature student* (undergrad or grad) that likes direction, but doesn't need your hand held through every step of the process?
- (2) Are you willing to get into your car and *travel at your own expense*, with a friend or family member to a designated wetland, then explore it, photograph it, interview some officials about it, and report your findings orally back to the class?
- (3) Since some of these sites will mean an overnight stay for 1-2 nights, are you willing to *camp or 'motel-it' (at your own expense)* at a nearby accommodation so that you can at least be at the site for two-three days? The best days to be on site are mid-week because you won't find any agency people working on weekends.
- (4) Are you interested in wetland issues, and *enjoy getting outdoors*, away from the computer screen?
- (5) Do you like to hike and photograph water landscapes, plants, and birds?
- (6) Do you like to do the *detective investigative work* (kind of like being a CSI Investigator) of finding out what you can learn from related topographic maps, historical photographs, and current aerial photographs?
- (7) Do you like the idea of doing research independently as opposed to working in a team with 3-4 other students?

If you answer "Yes" to most of these questions, then ENVS 144 is for you! If the answer is "No," then Dr. Klee suggests you talk to your advisor about substituting another class.

### Classroom Protocol

Students are expected to attend and "engage" daily and arrive to Zoom class on time. So that I can start the class exactly on

time. it would be especially appreciated if you actually arrive 5-10 minutes early. I will have the Zoom room open 15 minutes prior



Determine, apply and interpret appropriate basic statistical or other quantitative analyses of environmental data.

Develop proficiency in the interdisciplinary sustainability principles that are the foundations of environmental studies; they will know the key environmental challenges facing the planet, know relevant interdisciplinary information about these challenges, and be able to develop/identify feasible solutions.

Productively conduct group/team work to deliver professional quality presentations and reports and also engage in community service and civic participation.

Demonstrate in-depth knowledge and skills in a science or technical field (BS) or non-science field (BA and Preparation for Teaching).

## Course Goals

---

Course goals and objectives:

- To introduce students to the subject of wetlands, specifically the types & location of California coastal wetlands.
  - To introduce students to the range of perspectives on wetlands—from the social science perspective of the geographer, urban planner, economist, & political scientist, to the science perspective of the biologist, botanist, and restoration ecologist, and to the artistic perspective of the nature photographer and landscape painter.
  - To introduce students to the city, county, state, & federal government agencies involved with protecting wetlands, as well as the environmental and for-profit key players.
-

(1) -7425-2569-4  
\$38

This is an excellent undergraduate level [introductory book on wetlands](#) for ENVS majors. Why? Because it provides a [well-balanced discussion](#) between the sciences and social sciences. Download [from Amazon](#). The Kindle version is approximately \$38.00. You can also buy less expensive [used paperback versions](#) from Amazon.

## Wetlands

William J. Mitsch and James G. Gosselink  
John Wiley and Sons  
5th Edition

---

---



	F. Report on initial student wetland signups (1 come/1st serve[	





