

Description

This course is intended as a general overview of the field and principles of the restoration of river and streams. Requirements for the course are: LA 222 - Hydrology for Planners or instructor approval.

Term Project

The principal requirement of this course is an independent review of a previously constructed river restoration project. This project will involve original research, such as collection of field data and/or fresh analysis of existing data. The project scale should involve two well-organized days in the field (or the equivalent), thoughtful analysis and write-up of your results, and a process of peer review, revision, instructor review, and further revision. The result of this process should be a tight, 10-page paper, which will be added to the permanent collection of the Water Resources Center Archives. Past projects are listed at

<http://www.oac.cdlib.org/cgi-bin/oac/berkeley/wrca/>

As your papers are undergoing review and revision, you will make a 10-15-minute presentation of your study to a river restoration symposium, an all-day Saturday event attended by many professionals active in the field of stream restoration in the SF Bay Area.

Meet with your instructor and GSI early in the course to discuss possible topic ideas. The expectation is that most projects will be post-project appraisals of restoration projects recently constructed in the SF Bay region. If you want to do your term project on another topic (e.g., one related to aquatic resources stewardship at Point Reyes), you must develop a convincing proposal.

Field Trips

Field visits to restoration sites are planned for several weekends during the semester. Please see the course syllabus for dates. Additionally, if you haven't taken the Hydrology for Planners course (or can't otherwise demonstrate these knowledge and skills), you are required to take the weekend field training session 1-2 October at Point Reyes and GGNRA, during which we will cover a number of geomorphic and general survey skills.

Review of River Restoration Plans

The Water Resources Archives (412 O'Brien Hall) has a growing collection of river restoration plans. You will critically review two of these and submit a short write up, thereby seeing what restoration plans are actually like.

Readings and Class Discussion

Short readings are collected in your class reader (available at Replica Copy on Oxford), and longer references are available on reserve in the Water Resources Archives. To get the most out of the class, do the readings and be prepared to actively participate in class discussions each week. The syllabus and reader are coordinated by week.