



Water Resources Courses

Summer 2009

NEW COURSE

- The Tuolumne River:
Ecology, Resource Management
and Whitewater

www.extension.ucdavis.edu/landuse

**UC DAVIS
EXTENSION**

**LAND USE AND
NATURAL RESOURCES**



CONTINUING AND PROFESSIONAL EDUCATION

The Tuolumne River: Ecology, Resource Management and Whitewater

1.7 CEUs.

Learn the basics of river natural history and management in the ultimate natural classroom: the Tuolumne River. Join us on a two-day raft trip down California's premier whitewater river as staff provide field demonstrations and on-river lectures about aquatic and riparian ecology, geology, geomorphology, hydrology, controversial water resource development and the rich human history of the river. Experience the thrill of paddling down a class IV whitewater river and the beauty of camping in a wilderness setting on the banks of the state's first designated Wild and Scenic River. Walk away with an appreciation for the complexity and challenges associated with managing rivers as a public resource. Take advantage of this rare opportunity to interact with regional experts in river ecology and management in one of the state's most picturesque settings.

JEFFREY MOUNT is a professor in the Department of Geology, UC Davis. His teaching and research interests center on river management issues in California and the west. The primary focus of his research program is on fluvial geomorphology and river restoration, with an emphasis on restoring channel dynamics, surface water-groundwater connections, channel-floodplain connections and re-establishing natural flow regimes in dam-regulated rivers. In addition, he has worked extensively on the interaction between water resource management and ecosystem management in the Central Valley, Sacramento-San Joaquin Delta and North Coast of California.

PETER MOYLE has been working on the ecology and conservation of California's freshwater and sea-run fishes since 1969, resulting in the book *Inland Fishes of California* (2002) and many other publications. He is the author or co-author of five other books as well, including *Fish: An Enthusiast's Guide* (1996). The San Joaquin River watershed has been a major focus of his research, including studies of the ecology of Tuolumne River fishes. He served on the National Research Council Committee on endangered fishes in the Klamath Basin (2002-2003) and is currently serving on the San Joaquin River Restoration Technical Advisory Committee.

Two sections

■ 2 meetings.

■ **July 27-28:** Mon.-Tues., 7:30 a.m.-5 p.m.

■ **Groveland, Calif.:** Casa Loma parking lot (near campgrounds).

■ **\$325. Enroll in section 09INAT350.**

■ **Special discounts:** Groups.

OR

■ 2 meetings.

■ **Aug. 24-25:** Mon.-Tues., 7:30 a.m.-5 p.m.

■ **Groveland, Calif.:** Casa Loma parking lot (near campgrounds).

■ **\$325. Enroll in section 09INAT351.**

■ **Special discounts:** Groups.

Understanding Riparian Processes

1.2 CEUs.

12 hours MCLE credit.

Conservation and restoration of riparian systems require an understanding of the processes that create and sustain them. This course, designed for resource managers and planners, examines the structure, function and biotic value of riparian systems in the semi-arid west.

Topics include:

- The ecology and community dynamics of riparian vegetation
- How riparian systems are shaped by sediment movement and deposition, and by soil and nutrient dynamics
- The functional role of riparian systems in the landscape and as sources of biodiversity
- How and why various upstream and local land use activities impact riparian function
- Some of the commonly used techniques for riparian assessment and monitoring
- Restoration and conservation strategies that have proven successful in the Sacramento Valley

A field trip on the second day combines plant identification exercises with an opportunity to see functioning and impaired riparian systems and to observe restoration methods.

KEVIN MACKAY is a principal at ICF Jones & Stokes and leads the firm's habitat restoration planning and design practice. Mackay is a natural restoration ecologist with more than 15 years of experience conducting site assessments, technical evaluations and preparing conceptual restoration plans, detailed designs, and monitoring plans for riparian and wetland habitats throughout the western U.S. He serves as project director, project manager and technical leader on habitat restoration and water resource

projects. He specializes in working with resource and regulatory agencies and stakeholder groups to develop and implement complex riparian and wetland restoration projects that balance multiple objectives.

KEN SCHWARZ is a founding Principal of Horizon Water and Environment. His technical expertise is in the fields of geomorphology, hydrology and watershed management. For more than 16 years, he has directed complex projects throughout California involving erosion and sedimentation, flood management, land use planning, water quality, habitat conservation and ecosystem restoration. He conducts hydrologic and geomorphic analyses and produces watershed and stream management plans, hydrologic reports, restoration designs, stream assessments, CEQA documents and permitting applications. His watershed and stream projects typically involve balancing the needs and requirements of local government planners, flood control managers, watershed stakeholders and regulatory agencies while maintaining focus on project costs and schedules. He specializes in applying his expertise in geomorphology to develop restoration, sediment management and conservation plans. He has taught courses in hydrology, watershed management, riparian processes, ecosystem restoration and physical geography at the University of San Francisco, UC Davis Extension, Lorman Educational Services and UCLA.

- **2 meetings.**
- **Aug. 19-20:** Wed.-Thurs., 9 a.m.-4:30 p.m.
- **Davis:** Da Vinci Building, 1632 Da Vinci Ct.
- **\$360.** Includes course materials.
- **Enroll in section 091NAT251.**
- **Special discounts:** Groups.

About the Land Use and Natural Resources Program

The Land Use and Natural Resources (LUNR) program—one of the largest of its kind in the U.S.—aims to meet the needs of planners, resources managers, government officials, consultants, designers, developers, attorneys and others involved in planning processes. With more than 100 classes, conferences and training events that serve more than 4,000 people each year, the program includes courses on land use and environmental law and policy, natural resources management, water policy, housing and community development, transportation management, GIS applications and public finance and real estate. The program offers certificates in Land Use Planning, as well as customized contract courses.

Discounts Organizations enrolling three or more people at the same time in one class may do so for a 10 percent discount off each enrollment. The group discount cannot be combined with other discounts. All enrollments must be submitted at one time and fees paid with one check, credit card or purchase order.

Wetlands Regulation and Mitigation

.6 CEU.

6 hours MCLE credit.

Learn about the regulation of activities affecting wetlands, permitting for activities in wetlands and wetland mitigation planning. This course gives an overview of federal and state laws, and regulations that protect wetlands and other water bodies, with special emphasis on section 404 of the Clean Water Act. Topics include:

- Biological definitions of wetlands
- Legal definitions of wetlands
- Consistency and differences among various federal and state agencies
- Section 10 of the Rivers and Harbors Act
- Section 404 of the Clean Water Act and recent legal interpretations
- Sections 1601 and 1603 of the California Fish and Game code
- Wetlands under CEQA and NEPA

KENNETH BOGDAN, J.D., is a principal and senior environmental counsel for ICF Jones & Stokes in Sacramento. He specializes in analyzing issues regarding compliance with environmental laws and regulations, including CEQA, NEPA, wetlands and endangered species regulations. He has authored numerous articles and publications including the *CEQA Deskbook*, *The NEPA Book* and *Wetlands Regulation*. Bogdan received UC Davis Extension's Outstanding Instructor award in 2002.

MICHAEL VONDERGEEST is a regulatory compliance specialist and project manager with ICF Jones & Stokes, a Sacramento-based consulting firm specializing in environmental planning and natural resource management. Vondergeest specializes in project permitting for projects that require compliance with the California Environmental Quality Act (CEQA), the National Environmental Policy Act (NEPA), Sections 401 and 404 of the Clean Water Act, Section 10 of the Rivers and Harbors Act, Sections 1600 - 1616 of the California Fish and Game Code, and federal and state endangered species regulations. Additionally, Vondergeest helps to develop permitting strategies and implementation plans for sensitive water resource projects, presents workshops on wetlands regulation and Clean Water Act compliance through UC Davis Extension and does field wetland delineations when needed.

- **1 meeting.**
- **Sept. 10:** Thurs., 9 a.m.-4:30 p.m.
- **Sacramento:** Sutter Square Galleria, 2901 K St.
- **\$290. Enroll in section 09INAT220.**
- **Special discounts:** Groups.

GENERAL INFORMATION

Tax deductibility of educational expenses Expenses of education — including registration fees, travel, meals and lodging — may be deductible if they maintain or improve professional skills or meet the express requirement of an individual's employer. Contact a certified public accountant for more information, or visit www.irs.gov/taxtopics.

Continuing education units Continuing education units are a nationally recognized means of recording noncredit study. All CEUs are offered in quarter system units. One CEU is awarded for every 10 hours of contact participation.

MCLE credit Courses that list MCLE credit have been approved for Minimum Continuing Legal Education credit by the State Bar of California. UC Davis Extension certifies that these courses conform to the standards for approved educational activities prescribed by the rules and regulations of the State Bar of California governing minimum continuing legal education.

Also of interest...

Special Status Amphibians and Reptiles of Northern California

Receive keen insight on the 14 reptile and amphibian species native to Northern California currently listed as threatened or endangered under the state and federal Endangered Species Act. Examine a history of herpetological conservation in California. Learn information about state and federal protective laws and permit categories, as well as the basics of site habitat assessments.

- **1 meeting.**
- **July 23:** Thurs., 8 a.m.-5 p.m.
- **Sacramento:** Sutter Square Galleria, 2901 K St.
- **\$290.** Includes course materials.
Enroll in section 091NAT253.

Developing and Writing Effective CEQA Documents

Acquire a step-by-step approach to preparing and writing California Environmental Quality Act (CEQA) documents, in this course intended for project managers, authors and editors. Project managers learn how to set up their projects to improve author efficiency, effectiveness and client satisfaction. Authors learn skills for writing clear, concise CEQA sections that address client needs. Editors get a complete overview of the document preparation process and their role in that process.

- **2 meetings.**
- **Aug. 26-27:** Wed.-Thurs., 9 a.m.-5 p.m.
- **Sacramento:** Sutter Square Galleria, 2901 K St.
- **\$360. Enroll in section 091NAT259.**

ENROLL

www.extension.ucdavis.edu/landuse

ONLINE

For more information

For general information or to enroll, call UC Davis Extension at (800) 752-0881.

For specific program information, call (530) 757-8878, email extension@ucdavis.edu, or visit our website.

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If your plans change Refunds, less a \$30 processing fee, will be granted if the request is received seven calendar days before the course begins. At that time, you can also discuss transferring your enrollment to another program or sending a substitute. Requests for withdrawal without a refund must be received before the last meeting of the course. Requests for withdrawals or refunds may be made by phone, fax or in writing. Please include the student's name, course title and course section number. For information about other alternatives, call UC Davis Extension at (800) 752-0881.

Changes and cancellations UC Davis Extension reserves the right to cancel or reschedule courses and to change instructors. If a course is canceled or rescheduled, you may request an official transfer to another course or a refund. Every reasonable effort will be made to notify enrollees of changes or cancellations.

The University of California does not discriminate in any of its policies, procedures or practices. The university is an affirmative action/equal opportunity employer.

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ENROLLING IS EASY!

BY MAIL complete this form and send it to the Registration Office, UC Davis Extension, University of California, 1333 Research Park Drive, Davis, CA 95618-4852.
BY PHONE call toll free (800) 752-0881. From Davis or Woodland call 757-8777.
Please have your Visa, MasterCard, American Express or Discover account number handy.

BY FAX at (530) 757-8558. If you are enrolling with a company purchase order, please fax a completed enrollment form along with a copy of the purchase order. For security purposes we can no longer accept credit card payments via fax.
IN PERSON at our Registration Office, 8:30 a.m.-4:30 p.m., 1333 Research Park Drive, Davis.
ONLINE at www.extension.ucdavis.edu/landuse.

1. Yes! Please enroll me in the following course:

Title _____	Section number _____	Fee \$ _____
Title _____	Section number _____	Fee \$ _____

2. Customer information:

Mr. Mrs. Ms. _____ Name

Current position/job title _____ Social Security number* _____

IMPORTANT: Where would you like to receive mail? work home (Please fill in all blanks below.)

Address _____

City _____ State _____ Zip _____

Employer name _____
() ()

Daytime telephone _____ Evening telephone _____

Email _____ If you do not wish to receive periodic email about UC Davis Extension courses and programs in your area of interest, please check this box .

Please add info@unexmail.ucdavis.edu to your address book or safe list to ensure that our email messages are delivered properly.

*UC Davis Extension is required by federal law to report your Social Security Number (SSN) and other pertinent information to the Internal Revenue Service pursuant to the reporting requirements imposed by the Taxpayer Relief Act of 1997. UC Davis Extension also will use the SSN you provide to verify your identity. SSN disclosure is mandatory. This notification is provided to you as required by the Federal Privacy Act of 1974.

3. Payment information:

- Enclosed is a check payable to UC Regents.
- Enclosed is a company purchase order (a complete enrollment form, or all information requested on the enrollment form, must be included with purchase orders).
- Please charge Visa/MasterCard/American Express/Discover:

Account number _____ Expires _____

Name of cardholder _____ Authorized signature _____ 091192
Credit card verification number: _____ The CCV is the last three digits of the number printed on the back of your credit card (for American Express it is the last four digits of the number printed on the front of the card). For Payment Plan Agreement, please call (530) 757-8895.

4. Important! Key code: _____

For efficient processing of your enrollment, please fill in this code as it appears on your mailing label, whether or not it is addressed to you. If you enroll by phone, please be prepared to provide this code to your customer service representative. Also include it on all purchase orders.

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