

LAND USE AND NATURAL RESOURCES

SPRING 2012

Including:

*The Intersection Between
Transportation & Land Use*

*Studio 30: Community
Planning & Design
Seminar*

*Environmental
Management and
Sustainability*

UC DAVIS
EXTENSION

**LAND USE AND
NATURAL RESOURCES**



CONTINUING AND PROFESSIONAL EDUCATION

LETTER FROM THE DIRECTOR



I think about Social Darwinism and survival of the fittest a lot these days. We all realize that the planning, community development and resource management professions are experiencing a great deal of change. Although I have heard several theories and much speculation, the verdict is still out on what these professions will look like when, or if, things stabilize. There does seem to be agreement on one thing: the skill that professionals need most right now is adaptability. We all need to be willing to take on new challenges and learn new skills.

At UC Davis Extension, we know that we need to be as creative in meeting new challenges as the professionals who take our courses. We are constantly updating our existing courses with the most current information and developing new courses to address state-of-the-art practices and new policies and regulations. Because our certificate programs are flexible, you can tailor them to meet your professional needs by having greater course selection across programs and choosing to take a course in the classroom or online.

At UC Davis Extension's Land Use and Natural Resources department, we are committed to helping you turn your challenges into opportunities.

A handwritten signature in black ink that reads "Julia Lave Johnston". The signature is fluid and cursive.

Julia Lave Johnston
Director, Land Use and Natural Resources Department
UC Davis Extension



**For more information or to enroll
call (800) 752-0881, email extension@ucdavis.edu
or visit us online.**

extension.ucdavis.edu/landuse

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CALENDAR

LAND USE PLANNING

- March 29–June 14** Studio 30: Community Planning and Design Seminar
- April 12, 26 & May 4** Community Involvement and Communication in Planning
- April 20** Public Real Estate Transactions
- April 26–27** The Intersection Between Transportation and Land Use
- May 4** Downtown Revitalization for Almost Free
- May 10–11 & June 7–8** Urban Planning and Design Studio
- May 11** Practical Guide to Updating the General Plan
- June 7** Redesigning the Zoning Ordinance

NATURAL RESOURCES

- April 10, 14, May 8, 12 & June 5, 9** Introduction to Spring Birds of Northern California
- April 11** Clean Water Act Section 404: Nationwide and Other Specialized Permits
- April 18** NEPA Overview and Refresher
- April 19–20** Developing and Writing Effective CEQA Documents
- April 26–27** Understanding the Riparian Processes
- April 27** Practical Approaches to Erosion Control and Land Restoration
- May 2** Mitigation Measure Development and Monitoring
- May 11** Air Quality Analysis
- May 16** An Overview of Water Law and Policy in California
- May 18** SMARA Essentials: How to Successfully Prepare, Implement and Maintain Mine Reclamation Plans in California
- Enroll by June 1 and complete by June 22** CEQA: A Step-by-Step Approach
- June 6–7** Successful CEQA Compliance: An Intensive Two-Day Seminar

SUSTAINABILITY STUDIES

- Enroll by April 4 and complete by April 18** Building Efficiencies: Low Carbon and Renewable Energy
- Enroll by April 6 and complete by April 20** Solar Photovoltaic (PV) Energy Systems: Overview
- April 13–May 4** Energy Sources, End Uses and Impacts
- April 14** Geothermal Energy Systems: Overview
- April 18, May 2, 9 & 23** Sustainable Water Management in Site Design and Development
- April 26–June 21** Geothermal Energy Systems Design
- May 3** LEED for Existing Buildings: Operations & Maintenance
- Enroll by May 4 and complete by June 24** Solar Photovoltaic (PV) Energy Systems Design
- May 8–9** Environmental Management and Sustainability
- Enroll by May 15 and complete by June 22** Sustainability and the Built Environment
- May 31– June 1** Practical Applications for Green Roofs and Green Walls

COMMON GROUND

- May 9** Managing Workplace Conflict
- June 1–2** Facilitating Group Dynamics
- Enroll by June 4 and complete by July 24** Introduction to Mediation, Facilitation and Community Engagement

ONLINE

- CEQA: A Step-by-Step Approach, see page 11.
- Sustainability and the Built Environment, see page 18.
- Building Efficiencies: Low Carbon and Renewable Energy, see page 18.
- Solar Photovoltaic (PV) Energy Systems: Overview, see page 20.
- Solar Photovoltaic (PV) Energy Systems Design, see page 20.
- Introduction to Mediation, Facilitation and Community Engagement, see page 21.

For the most up-to-date schedule of courses offered throughout the year, visit extension.ucdavis.edu/landuse.

Land Use Planning

There's still time to enroll for courses starting in March!

Annual Land Use Law Review and Update, March 2. Enroll in section 113LUP141.

Planning and Environmental Law, March 15. Enroll in section 113LUP515.

Using Specific Plans to Create Great Communities, March 16. Enroll in section 113LUP145.

Land Use and Environmental Planning Certificate Program

Designed for planning and environmental professionals of all backgrounds, this program will give you the foundation you need to master the body of knowledge associated with land use and environmental policy practice. Explore both theory and practice, addressing practical aspects of planning in the context of larger issues.

REQUIRED COURSES

Environmental Planning and Site Analysis

Financial Aspects of Planning

Community Involvement and Communication in Planning

Planning in California: Overview and Update

Planning and Environmental Law

Urban Planning Design Studio

YOU MUST ALSO COMPLETE EIGHT ELECTIVE COURSES

extension.ucdavis.edu/landuse

Technical Requirements:

We're going paperless: Many of our courses use an Extended Classroom website for course materials and correspondence. You must provide an email address when enrolling in order to receive Extended Classroom access.

For online courses: Enroll anytime between the dates noted. You must provide your email address when enrolling to receive a password to access the course. If you do not receive your password in the time frame noted, please visit the Online Learning Campus Support Center at extensiondlc.net/helpdesk. Open a new ticket, and select "Password Issues" from the Help Topics.

Urban Planning and Design Studio

3 quarter units academic credit, X432.6. 30 hours MCLE credit, 30 hours AICP credit, 30 hours REHS credit.

Receive hands-on practice in professional urban planning and design skills in a studio/lecture format. Immerse yourself in planning and design principles, examples and case studies for today's communities. Critique land use plans and site designs, create and prepare site plans, and analyze and develop planning staff reports. Emphasis is placed on urban infill and sustainable community design, and the challenges and complexities of planning and urban design in growing communities. In-class studio work and critique, as well as guest lectures, a hands-on downtown design modeling charrette and field visits are also included. There will be a minimum of 24 hours of planning and design work conducted outside of class.

JEFF LOUX. See page 23.

- 4 meetings.
- May 10–11 and June 7–8: Thurs. and Fri., 8 a.m.–4:30 p.m.
- Sacramento: Sutter Square Galleria, 2901 K St.
- \$550. Includes course materials. Enroll in section 114LUP506.
- Special discounts: Groups. APACA section members. See page 26.

CELEBRATE 30 YEARS WITH LAND USE AND NATURAL RESOURCES

This spring, Land Use and Natural Resources is throwing a party to thank our alumni and instructors for their continued support. Help us celebrate 30 years of offering cutting-edge, quality professional education. More information will be sent to alumni. If you are an alumni and would like to update your contact info, please call us at (530) 757-8878 or email extension@ucdavis.edu.

Community Involvement and Communication in Planning

2 quarter units academic credit, X432.7.
20 hours MCLE credit, 20 hours AICP credit, 20 hours REHS credit.

Understand the theoretical background and the hands-on practice of involving stakeholders in urban planning and design decisions and natural resources policy. Practice selected communication and facilitation techniques that create mutually beneficial solutions. Examine how to assess a case situation and determine what type of public process is right for each situation. Discuss the strengths and weaknesses of techniques used in public involvement. Explore different approaches to communicating complex and technical planning information to community groups. Using several simulated negotiations, engage as stakeholders or facilitators to resolve complex public policy problems in urban planning. Examine case studies and analyze what went well, what went wrong and why.

Prerequisites: *Planning in California: Overview and Update, Urban Planning and Design Studio.*

JEFF LOUX. See page 23.

- 3 meetings.
- April 12, 26 and May 4: Thurs. and Fri., 9 a.m.–4:30 p.m.
- Sacramento: Sutter Square Galleria, 2901 K St.
- \$550. Includes course materials. Enroll in section 114LUP507.
- Special discounts: Groups. APACA section members. See page 26.

Public Real Estate Transactions

.6 CEU.

6 hours MCLE credit, 6 hours AICP credit.

Hone your understanding of the public real estate transaction process with essential knowledge for anyone in the public or nonprofit sectors involved in the acquisition, resale, appraisal or management of public property. Learn the fundamental processes that must be followed, whether for road right-of-ways, public works projects, parks, open space, agricultural or habitat easements, utilities or other purposes. Through detailed case studies, you will learn about due diligence procedures for appraisals, hazardous materials assessments, insurance, title searches, and liens and loans, as well as negotiation strategies with multiple agencies and parties.

CYDNEY BENDER REENTS, ANNE BRUNETTE, NANCY PARK, HARRIET STEINER, DAVID VONASPERN and DAVID WRAA. See page 23.

- 1 meeting.
- April 20: Fri., 9 a.m.–4:30 p.m.
- Sacramento: Sutter Square Galleria, 2901 K St.
- \$290. Enroll in section 114LUP103.
- Special discounts: Groups. BIA and APACA section members. See page 26.

Did you hear? We now offer the following:

Special Discount

California American Planning Association Section Members receive a discount on certain Land Use and Natural Resources courses.

Professional Credit

UC Davis Extension is a Continuing Education Accreditation Agency for Registered Environmental Health Specialists. We offer REHS Continuing Education Contact Hours for many of our courses. Check the course listing for details.

NEW!

The Intersection Between Transportation and Land Use



12 hours AICP credit, 12 hours MCLE credit.

Learn how to use current data to achieve goals for both transportation system improvement and community development. Designed for transportation and land use practitioners, this course combines hands-on problem-solving workshops, discussions on established principles of land use and transportation relationships, tools for managing relationships, and case studies in California. Develop a fundamental understanding of the complex, multi-dimensional nature of the land use-transportation linkage, and learn how to apply this understanding to the development of regional, local and site-specific transportation and land use plans and studies.

Topics include:

- What is known and not known about the effects of transportation improvements on land use and vice versa
- Smart Growth and New Urbanism principles and strategies
- Federal, state and local regulatory requirements for transportation and land use planning including recent changes in California from SB 97, Assembly Bill (AB) 32 and SB 375
- How to effectively integrate land use and transportation objectives when preparing general and specific plans, RTPs, TIPs, transportation impact studies, and other plans and studies
- How land use-transportation interactions are dealt with by typical travel demand and traffic operations models
- How to use performance measures to manage these relationships
- Case studies of successful and unsuccessful strategies used in California
- How to find relevant, up-to-date data on transportation and land use

Land use and transportation planners, air quality and climate change specialists, engineers and managers of public transportation planning and operating agencies, as well as consultants, community planners and land use developers will benefit from this introductory-level course.

RON MILAM and **HEIDI TSCHUDIN**.

See page 23.

- 2 meetings.
- April 26–27: Thurs.–Fri., 9 a.m.–4:30 p.m.
- Sacramento: Sutter Square Galleria, 2901 K St.
- \$360. Enroll in section 114LUP250.
- Special discounts: Groups. APACA section members. See page 26.

Practical Guide to Updating the General Plan

.6 CEU.

6 hours MCLE credit, 6 hours AICP credit.

Stay up-to-date on the policies and best practices associated with revising a general plan. Learn how to scope and budget a project, hire consulting assistance as necessary and finish the project in an efficient, but comprehensive manner. This course is taught from three distinct perspectives: an urban planner and designer, an environmental analyst and a public planning professional. Topics include: general plan law and requirements; data collection, mapping and land use inventories; preparing and evaluating alternatives; integration of CEQA; and public involvement in general planning.

DAVID EARLY and **RICHARD WALTER**. See page 23.

- 1 meeting.
- May 11: Fri., 9 a.m.–4:30 p.m.
- Sacramento: Sutter Square Galleria, 2901 K St.
- \$290. Enroll in section 114LUP132.
- Special discounts: Groups. BIA and APACA section members. See page 26.

Redesigning the Zoning Ordinance

.6 CEU.

6 hours MCLE credit, 6 hours AICP credit.

Zoning ordinances shape the appearance and function of all land uses in a community. The practice of how communities use zoning regulations to achieve development goals continues to evolve, and many cities and counties look to ordinance updates to achieve their development objectives. Discover how to transform your zoning ordinance into a more understandable, streamlined, defensible and effective planning implementation tool. Leading California zoning experts provide effective principles for revising and updating city and county zoning ordinances and discuss solutions to specific ordinance concerns raised by attendees.

Topics include:

- Correlating zoning ordinance provisions with general plan policies and standards
- State-of-the-art zoning ordinance structure, format/style and graphic design for creating easy-to-use documents
- Zoning districts: how many, what types, when to use overlays and combining designations
- Development standards: type, specification, performance approaches, graphic support and representation
- Form-based codes, hybrid codes, design guidelines and sustainable development practices
- Content-neutral sign regulations, nonconforming uses and other controversial regulatory issues
- Steps to faster, effective and thorough development permit review procedures
- Computerizing the zoning ordinance

BRUCE JACOBSON and **LAURA STETSON**. See page 23.

- 1 meeting.
- June 7: Thurs., 9 a.m.–4:30 p.m.
- Sacramento: Sutter Square Galleria, 2901 K St.
- \$290. Enroll in section 114LUP120.
- Special discounts: Groups. BIA and APACA section members. See page 26.

Downtown Revitalization for Almost Free

.6 CEU.

6 hours MCLE credit, 6 hours AICP credit.

Downtown revitalization is in crisis due to the economic slowdown, budget cuts and uncertainty about redevelopment funding. This crisis is limiting economic recovery of downtowns even though developers, local governments, businesses and the public embrace downtown revitalization in recognition of its benefits, including a central location for commercial activities, revenue for government services, a magnet for “creative class” workers, locations for transit-oriented development, and a foundation for a sense of community and place.

This course discusses strategies that provide meaningful benefits with limited funds. You will learn about a range of planning, design, regulatory and financial tools to revitalize downtowns or mixed-use districts.

Topics include:

- Identification of local values, history, culture and natural environment that define the downtown character
- Capturing and sustaining community support
- Targeting and marketing to customers (residents and visitors)
- Identifying “shovel-ready” projects to take advantage of pop-up opportunities
- Proactive identification of opportunities, potential sites and marketing for businesses
- Incentives to achieve revitalization goals
- Leveraging businesses, institutions, committees, volunteers, students and nonprofits for program implementation

M. BLAKE ROBERTS. See page 23.

- 1 meeting.
- May 4: Fri., 9 a.m.–4:30 p.m.
- Sacramento: Sutter Square Galleria, 2901 K St.
- \$290. Enroll in section 114LUP142.
- Special discounts: Groups. BIA and APACA section members. See page 26.

Studio 30: Community Planning and Design Seminar

Noncredit.

Find out what the future of planning looks like in *Studio 30: Community Planning and Design Seminar*.

Land Use and Natural Resources is partnering with professionals and academics in planning, design and development, along with students in UC Davis' Community Development and Geography graduate groups and the Landscape Architecture program to create an exciting opportunity for collaboration and dialogue on community planning projects. Through interactive discussions and skills training from experts, participants will explore modeling tools, community involvement techniques, market surveys, sustainable site and building design methods, policy development, compliance techniques and more.

There is no fee to enroll.

If you're interested in participating, contact Julia Lave Johnston, Attn. Studio 30, at extension@ucdavis.edu.

JULIA LAVE JOHNSTON and **JEFF LOUX**.

■ March 29–June 14: Thurs., 5–7 p.m.



"Studio 30 is an exciting opportunity for professionals and students to learn from each other while working on real-world planning projects. As a professional planner for more than 15 years, I appreciate the enthusiasm and creativity that the students bring to these projects. Not only do I have a chance to mentor emerging professionals, but I am able to access new ideas that are being discussed at the university."

—Jeff Henderson, senior associate, AECOM and Studio 30 Fellow

CUSTOMIZED TRAINING IN A CLASS BY ITSELF

Check out our custom training website:

extension.ucdavis.edu/lunr_custom

UC Davis Extension offers custom training programs suitable for staff working in land use planning, transportation, water resources, sustainable design, natural resources and regulatory processes. We have a wide range of services tailored to fit your needs, time frame and budget.

We can train on-site, at our training facilities in Sacramento or Davis, or even online.

Don't see exactly what you want? We can create a course or certificate program to meet your unique needs.

CLIENTS INCLUDE

California Integrated Waste Management Board

State Water Resources Control Board

U.S. Department of the Interior

California Cities and Municipalities throughout the State

California Department of Transportation

Local Government Commission

For more information visit our website.

extension.ucdavis.edu/lunr_custom

Natural Resources

There's still time to enroll for courses starting in February and March!

Endangered Species Regulation and Protection, Feb. 16. Enroll in section 113NAT221.

Project Planning: Integration of Environmental Permits, Feb. 29. Enroll in section 113NAT243.

Climate Change Adaptation Planning, March 8. Enroll in section 113NAT278.

Field Botany for Nonbotanists, March 23. Enroll in section 113NAT420.

Cultural Resource Management: CEQA, NEPA and Section 106, March 21. Enroll in section 113NAT241.

California Rapid Assessment Method Part 1, Riverine, March 21. Enroll in section 113NAT272.

Overview of Integrated Land Use-Transportation Modeling for Sustainable Communities, March 22. Enroll in section 113NAT427.

An Overview of Water Law and Policy in California

.6 CEU.

6 hours MCLE credit, 6 hours AICP credit,
6 hours REHS credit.

Understand the complex and contentious process of allocating California's water resources. Gain a comprehensive overview of the legal and regulatory framework for surface water and groundwater rights, as well as the environmental laws that regulate water use. Topics include: allocation of surface water through appropriative and riparian rights; California's system of groundwater rights; authority of the State Water Resources Control Board; protecting Northern California's area of origin laws; environmental protections under the public trust doctrine, the Endangered Species Act, CEQA, Section 404 of the Clean Water Act and Fish and Game Code; California water institutions such as the Bureau of Reclamation, Department of Water Resources and local water agencies; Federal Reclamation Law and the Central Valley Project Improvement Act; legal constraints on water transfers; allocating interstate rivers such as Colorado River Basin and Klamath River Basin; and California's water hub, understanding the Sacramento-San Joaquin Bay-Delta and its regulatory and planning context.

DAVID SANDINO. See page 23.

- 1 meeting.
- May 16: Wed., 9 a.m.–4:30 p.m.
- Sacramento: Sutter Square Galleria, 2901 K St.
- \$290. Enroll in section 114NAT204.
- Special discounts: Groups. BIA and APACA section members. See page 26.

Successful CEQA Compliance: An Intensive Two-Day Seminar

1.2 CEUs.

12 hours MCLE credit, 12 hours AICP credit.

CEQA is the state's most comprehensive environmental law. Its requirements influence virtually all prospective land use and public agency projects. Learn how to clearly understand and comply with CEQA guidelines in this interactive seminar, designed to assist public agency staff, consultants, attorneys, developers, members of environmental organizations and others. The first day focuses on the background and implementation of CEQA, the preliminary review process, determination of an environmental document, the negative declaration process and document content, and the Environmental Impact Review (EIR) process.

The second day focuses on development of exceptional impact analysis and mitigation measures and the integration of other environmental programs. Specific topics include: impacts and mitigation; integration with NEPA, water quality, wetlands and endangered species regulations, and historic preservation programs; judicial review; and EIR management issues.

ANTERO RIVASPLATA and **MAGGIE TOWNSLEY.** See page 23.

- 2 meetings.
- June 6–7: Wed.–Thurs., 9 a.m.–4:30 p.m.
- Sacramento: Sutter Square Galleria, 2901 K St.
- \$360. Enroll in section 114NAT212.
- Special discounts: Groups. BIA and APACA section members. See page 26.

Developing and Writing Effective CEQA Documents

1.2 CEUs.

12 hours MCLE credit, 12 hours AICP credit.

Learn a step-by-step approach to preparing and writing CEQA documents. Project managers will learn how to set up their projects to improve author efficiency, effectiveness and client satisfaction. CEQA authors will gain skills for writing clear, concise CEQA sections that address client needs. Editors will receive a complete overview of the document preparation process and their role in that process. In this activities-based workshop, you will discuss outlining, write sections, develop techniques for tracking references and critique project start-up packets and other materials.

ELLEN UNSWORTH. See page 23.

- 2 meetings.
- April 19–20: Thurs.–Fri., 9 a.m.–4:30 p.m.
- Sacramento: Sutter Square Galleria, 2901 K St.
- \$360. Enroll in section 114NAT259.
- Special discounts: Groups. BIA and APACA section members. See page 23.

ONLINE

CEQA: A Step-by-Step Approach

.6 CEU.

6 hours MCLE credit, 6 hours AICP credit.

Clarify and deepen your understanding of CEQA and the implications it has for your organization, plan or project. Discuss the latest changes to the state CEQA guidelines, new case law and legislation.

Topics include:

- CEQA's legislative history
- An overview of CEQA requirements
- Steps in the CEQA process and when projects are exempt
- The threshold decision: Is an EIR required?
- Negative declarations and mitigated NDs
- How to determine the scope and content of an EIR
- Public notice and review requirements
- Agency decision-making under CEQA
- Mitigation monitoring and reporting
- When to prepare supplemental EIRs
- Judicial review of CEQA decisions

ANTERO RIVASPLATA. See page 23.

- Enroll now through June 1 and complete by June 22. Passwords issued starting May 14.
- \$350. Enroll in section 114NAD450.
- Special discounts: Groups. BIA members. See page 26.

"In the fast moving regulatory

and policy environment of California, we count on UC Davis Extension courses to provide our staff with current and comprehensive information on existing and emerging state, regional and local strategies and practices. The material is relevant to the work we do and is often presented by practitioners in the field who have firsthand experience."

—Barbara Steck, deputy director, Fresno COG



Clean Water Act Section 404: Nationwide and Other Specialized Permits

.6 CEU.

6 hours MCLE credit, 6 hours AICP credit.

Understand and comply with requirements of the most widely used set of permits for projects in wetlands and other waters of the U.S. under Section 404 of the Clean Water Act, which requires projects to first obtain a permit from the U.S. Army Corps of Engineers for the placement of dredged or fill materials in U.S. waters. Through the Corps' Nationwide Permit Program (NWP), general permits may be issued on a nationwide basis for activities that have minimal effects on the aquatic environment. The current program is scheduled to expire on March 18, 2012, with a new set taking its place.

Study the new 2012 Nationwide Permits, including general and specific regional conditions. Gain a thorough understanding of the NWP program and the latest information from the Corps as well as other state and federal agencies. Review verification and pre- and post-construction notification processes and discuss requirements for notification contents. Further your understanding of:

- Activities covered by NWPs
- Region-specific conditions
- Use of multiple NWPs
- Special aquatic sites
- Mitigation requirements
- 401 certification
- ESA/EFH compliance
- NHPA Section 106 compliance
- Local Corps district policies

JONATHAN FOSTER and **MEGAN SMITH**. See page 23.

- 1 meeting.
- April 11: Wed., 9 a.m.–4:30 p.m.
- Sacramento: Sutter Square Galleria, 2901 K St.
- \$290. Includes course materials. Enroll in section 114NAT223.
- Special discounts: Groups, BIA and APACA section members. See page 26.

Introduction to Spring Birds of Northern California



1.5 quarter units academic credit, X425.11.

Birds are colorful, visible and active, and the diversity of birds in California is higher than in any other state or province in North America. Learn about these remarkable creatures and experience the beauty of Northern California during spring migration. Designed for novice to intermediate birders, this course introduces you to the fascinating natural history and ecology of Northern California birds. Three field trips are designed to introduce the major habitats of central California including: the bays and beaches of the coast, the riparian woodlands and grasslands of the Central Valley, and the forests and woodlands of the Sierra Nevada. Learn to identify birds in the wild focusing on yearlong residents, spring/summer breeding species and spring migrants. The lecture preceding each field trip focuses on the ecology of the habitats on the following field trip. Enrollment is limited to 15 students to ensure personal interaction with the instructor in the field. This course complements the companion course, *Introduction to Fall Birds of Northern California*, taught in the fall.

SID ENGLAND and **KEVIN GUSE**. See page 23.

- 6 meetings.
- April 10, 14, May 8, 12 and June 5, 9: Tues., 6:30–9 p.m. and Sat., 7 a.m.–5 p.m.
- Davis: Da Vinci Building, 1632 Da Vinci Ct.
- \$290. Enroll in section 114NAT244.
- Special discounts: BIA members. See page 26.

ENROLL
extension.ucdavis.edu/landuse
ONLINE

Mitigation Measure Development and Monitoring

.6 CEU.

6 hours MCLE credit, 6 hours AICP credit.

Learn how to develop and monitor enforceable mitigation measures for different types of projects in California. Focus on the legal basics and latest court cases on mitigation measures. Receive practical advice, examples and checklists for developing and monitoring mitigation measures. Topics include: legal requirements for mitigation measures under CEQA, NEPA and other major environmental laws; recent case law interpretations for mitigation measures; mitigation approaches to difficult subject areas (e.g., transportation, growth-inducement, air quality, wetlands and biological resources); trends in local government implementation of CEQA's mitigation monitoring requirements; practical advice on how to prepare project-specific mitigation monitoring programs; and the pros and cons of different enforcement techniques.

JONATHAN FOSTER and **ANTERO RIVASPLATA**. See page 23.

- 1 meeting.
- May 2: Wed., 9 a.m.–4:30 p.m.
- Sacramento: Sutter Square Galleria, 2901 K St.
- \$290. Enroll in section 114NAT209.
- Special discounts: Groups. BIA and APACA section members. See page 26.

Air Quality Analysis

.6 CEU.

6 hours MCLE credit, 6 hours AICP credit.

Learn how to meet the significant air quality challenges posed by increasing urbanization and development. Designed for planning and environmental protection professionals who deal with transportation analyses, this course presents the principles of air quality assessment and regulation for land use and transportation projects. Through lectures and case studies, build your knowledge of air quality basics including types of contaminants, their sources and their impacts on health and welfare. Additional topics include: the federal, state, regional and local regulatory framework; the governmental entities responsible for implementing air quality regulations and the nongovernmental entities that influence decisions; current and evolving project analysis tools and air quality

modeling techniques; components of air quality assessment under CEQA and NEPA; and emissions calculations, rule compliance and Best Available Control Technologies requirements.

LARRY GREENE. See page 23.

- 1 meeting.
- May 11: Fri., 9 a.m.–4:30 p.m.
- Sacramento: Sutter Square Galleria, 2901 K St.
- \$290. Enroll in section 114NAT255.
- Special discounts: Groups. BIA and APACA section members. See page 26.

NEPA Overview and Refresher

6 CEUs.

6 hours MCLE credit, 6 hours AICP credit.

NEPA ensures that information on the environmental implications of any federal or federally funded action is available to public officials and citizens before making decisions or taking actions. This one-day program presents an overview of the procedural and substantive requirements of NEPA. Topics include: the fundamentals of NEPA; NEPA's legal and regulatory framework; determination of when NEPA applies to federal activities; the relationship between findings of no significant impacts and environmental assessments; when an EIS is required; determination of purpose and need, and their relationship to alternatives; the key issues in EIS preparation; and current standards of judicial review and coordination with CEQA.

GREGG ELLIS and **MAGGIE TOWNSLEY**. See page 23.

- 1 meeting.
- April 18: Thurs., 9 a.m.–4:30 p.m.
- Sacramento: Sutter Square Galleria, 2901 K St.
- \$290. Enroll in section 114NAT236.
- Special discounts: Groups. BIA and APACA members; APA member discount upon request. See page 26.

Practical Approaches to Erosion Control and Land Restoration

.6 CEU.

6 hours MCLE credit, 6 hours AICP credit.

State and locally required storm water regulations mandate control of erosion and improved practices from all types of land disturbance activities including road building, urban development, mining, infrastructure, restoration and parks. Examine principles of erosion control; revegetation methods; re-establishing native plant communities; biotechnical slope stabilization; run-off and soil loss calculations; design of sediment basins and other structures; inspection and maintenance; stabilization using willow wattling, brush matting and other biotechnical methods; aesthetic considerations and processes; and techniques and case studies of stream and wetland restorations.

SARAH SUTTON. See page 23.

- 1 meeting.
- April 27: Fri., 9 a.m.–4:30 p.m.
- Sacramento: Sutter Square Galleria, 2901 K St.
- \$290. Enroll in section 114NAT234.
- Special discounts: Groups. BIA and APACA section members. See page 26.

Understanding Riparian Processes

1.2 CEUs.

12 hours MCLE credit, 12 hours AICP credit.

Conservation and restoration of riparian systems require an understanding of the processes that create and sustain them. Gain an overview of the physical and biological processes that shape rivers, streams and riparian ecology in this course designed for environmental managers, land use planners, naturalists and educators. Learn about the role riparian communities play in the landscape, current threats to riparian systems, and opportunities to conserve, enhance, and restore the physical and ecological functions and processes of riparian ecosystems.

KEVIN MACKAY and **KEN SCHWARZ.** See page 23.

- 2 meetings.
- April 26–27: Thurs.–Fri., 9 a.m.–4:30 p.m.
- Davis: Da Vinci Building, 1632 Da Vinci Ct.
- \$360. Enroll in section 114NAT251.
- Special discounts: Groups. BIA and APACA section members. See page 26.

SMARA Essentials: How to Successfully Prepare, Implement and Maintain Mine Reclamation Plans in California

.6 CEU.

6 hours MCL credit, 6 hours AICP credit.

Explore the key strategies for developing and implementing reclamation plans to satisfy California's Surface Mining and Reclamation Act (SMARA) requirements. Learn to get it right the first time to avoid costly revisions and delays in obtaining approvals. Once approved, approaches for implementing and maintaining reclamation plans to avoid common pitfalls in the future are covered, as well as essential considerations for dealing with Interim Management Plans, amendments to reclamation plans, "idle" and "abandoned" status determinations and overcoming CEQA hurdles. Case studies will be used to illustrate many of the principles discussed. Mine operators and others who need to write reclamation plans, and lead agencies responsible for reviewing and approving them will benefit from this course.

JAMES POMPY and **GREG ZITNEY.** See page 23.

- 1 meeting.
- May 18: Fri., 9 a.m.–4:30 p.m.
- Sacramento: Sutter Square Galleria, 2901 K St.
- \$290. Includes course material. Enroll in section 114NAT224.
- Special discounts: Groups. See page 26.

FACULTY IN PRINT

Jeff Loux, Ph.D., chair of UC Davis Extension's Science, Agriculture and Natural Resources Department, has completed his second book, *The Open Space and Land Conservation Handbook*. This how-to guide offers practical solutions for protecting valuable natural resources and open space and is available at the UC Davis Bookstore.

Sustainability Studies

There's still time to enroll for courses starting in February and March!

Green Building Materials and Construction Methods, Feb. 15. Enroll in section 113GBD104.

Sustainable Transportation, March 14. Enroll in section 113GBD132.

Solar Photovoltaic (PV) Energy Systems: Compliance and Code Overview, March 15. Enroll in section 113ENR225.

Sustainable Planning, Environmental Site Design and Development, March 28. Enroll in section 113SDD103.

Green Building and Sustainable Design

Energy Sources, End Uses and Impacts

2 quarter units academic credit, X421.6.
20 hours AICP credit.

End uses—the breakdown of how energy is used in its final stage—is a crucial component of a successful sustainable environment. Conservation and the effectiveness of renewable energy sources like solar power, biomass, hydroelectric and photovoltaic are key elements to achieving energy efficiency. Examine the energy issue from the macro perspective of the built environment to the micro approach of how heat flows throughout a building. Using the “whole building” perspective, discover some of the natural and mechanical means of heating, cooling and ventilation for improved indoor air quality and cost savings. From solar panels and exterior shades to lighting a space and painting a roof white, learn how to analyze energy use as an effective strategy to promote energy conservation in the built environment.

GEORGE TURNBULL. See page 23.

- 4 meetings.
- April 13–May 4: Fri., 8 a.m.–1 p.m.
- Sacramento: Sutter Square Galleria, 2901 K St.
- \$550. Enroll in section 114GBD106.
- Special discounts: Groups. BIA and APACA section members. See page 26.

Sustainable Water Management in Site Design and Development

2 quarter units academic credit, X421.3.
20 hours AICP credit, 20 hours REHS credit.

Incorporate a sustainable water resources approach into urban development and its related infrastructure at the planning, design and construction stages. Explore water use/demand, water conservation, water quality and wastewater treatment, use of recycled water and storm water drainage as they relate to the planning and design of urban communities and individual project sites. Learn to apply sustainability principles to natural or impacted sites, and gain a fundamental understanding of water resources policy issues and hydrologic processes as they apply to community design situations. Practice these skills including sustainable landscape design.

JEFF LOUX and SARAH SUTTON. See page 23.

- 4 meetings.
- April 18, May 2, 9: Wed., 9 a.m.–4 p.m., and May 23: Wed., 9 a.m.–1 p.m.
- Sacramento: Sutter Square Galleria, 2901 K St.
- \$550. Enroll in section 114GBD105.
- Special discounts: Groups. BIA and APACA section members. See page 26.

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NEW!

Environmental Management and Sustainability

1.5 quarter units academic credit, X490.1.
1.5 CEUs, 15 hours REHS credit, 2.51 ABIH CEUs.

Gain a solid foundation in the principles of environmental management and sustainability. The main elements of environmental management will be discussed, including “ISO 14001 Guidelines,” program design and execution, gaining leadership and organizational participation, stakeholder involvement and performance assessment. Discuss sustainability standards, such as the UL Interim Sustainability Requirements 880, and management of environmental elements, such as water conservation, energy conservation and greenhouse gas reduction.

MARK POSSON. See page 23.

- 2 meetings.
- May 8–9: Tues.–Wed., 8:30 a.m.–5 p.m.
- Sacramento: Sutter Square Galleria, 2901 K St.
- \$550. Includes course materials and morning refreshments. Enroll in section 114GBD200.
- Special discounts: Groups. APACA section members. See page 26.

Practical Applications for Green Roofs and Green Walls



.6 CEU.
6 hours AICP credit, 6 hours MCLE credit.

Interest in green roofs and green walls is growing, and designers are increasingly incorporating them into their projects to reduce storm water runoff, improve energy efficiency, gain LEED points and create habitat. The benefits of green roofs and walls are well documented and easily understood, but how do you actually build them, and what components and materials are needed to get the job done?

Learn the basics of green roof and green wall design, from material and vendor selection to plant and growing medium considerations. Examine green roof and green wall systems for an in-depth understanding of the components and products utilized, as well as the applicable terminology. Construction details, specifications, growing medium blends and plant lists from real projects will provide you with practical knowledge that can be used at the drafting table and out in the field. Students will walk away with a thorough understanding of the major design principles, products and tools to create a green roof or green wall.

HAVEN KIERS. See page 23.

- 2 meetings.
- May 31–June 1: Thurs.–Fri., 9 a.m.–4:30 p.m.
- Davis: Da Vinci Building, 1632 Da Vinci Ct.
- \$360. Enroll in section 114GBD121.
- Special discounts: Groups. BIA and APACA section members. See page 26.

LEED for Existing Buildings: Operations & Maintenance

.6 CEU.
6 hours MCLE credit, 6 hours AICP credit,
6 hours GBCI credit.

Explore the fundamental concepts and application of LEED for Existing Buildings: Operations & Maintenance (LEED O&M) Green Building Rating System developed by the U.S. Green Building Council in this full-day course. Intended for building owners, facility managers and building engineers, as well as design, construction, real estate and other building industry professionals, this course will benefit anyone seeking to expand their knowledge of this area. Students will examine case studies of LEED-certified building projects, the concepts of continual improvement in building operations and maintenance, and review selected technical and administrative requirements of LEED O&M.

KELLY GEARHEART and **LYNN SIMON.** See page 23.

- 1 meeting.
- May 3: Thurs., 9 a.m.–5 p.m.
- Sacramento: Sutter Square Galleria, 2901 K St.
- \$290. Enroll in section 114GBD201.
- Special discounts: Groups. BIA and APACA section members. See page 26.

DESIGN A SUSTAINABILITY CERTIFICATE THAT WORKS FOR YOU

UC Davis Extension's Sustainability Studies program is designed to let you customize a certificate to meet your professional goals. This flexibility allows you to mix-and-match courses in renewable energy, green architecture, and sustainable community and infrastructure design. Some of our classroom and online courses have the same curriculum. To discuss how to create a certificate that meets your needs call Jeff Loux or Julia Lave Johnston at (530) 757-8878.

Green Building and Sustainable Design Certificate Program

By combining elements from landscape architecture, civil engineering, land use planning and more, this program will help you create successful strategies for implementing green building and sustainable design practices into your cities, neighborhoods, sites and buildings.

REQUIRED COURSES

Sustainability and the Built Environment

Sustainable Planning, Environmental Site Design and Development

Sustainable Water Resources Management in Site Design and Development

Green Architecture

Green Building Materials and Construction Methods

Energy Sources, End Uses and Impacts

Green Building Design Studio

YOU MUST ALSO COMPLETE THREE ELECTIVE COURSES

extension.ucdavis.edu/greenbuilding

ONLINE Sustainability and the Built Environment Certificate Program

Based upon the highly successful classroom program, this online certificate offers comprehensive knowledge on how to plan, design, construct and manage communities from a more sustainable perspective. Acquire the skills necessary to integrate sustainable design principles into long-range visions and the day-to-day development and management of the built environment.

REQUIRED COURSES

Sustainability and the Built Environment: An Overview

Sustainable Planning, Environmental Site Design and Development

Sustainable Water Resources Management in Site Design and Development

Green Architecture

Green Building Materials and Construction Methods
Building Efficiencies: Low Carbon and Renewable Energy

LEED Building Certification

The Business of Sustainability

extension.ucdavis.edu/greenbuilding

"My interactions with students

have shown that Sustainability Studies is very effective in helping students gain a sophisticated understanding of sustainability issues that allows them to integrate these practices into their professional lives or transition into a new career."

—David Mogavero, senior principal, Mogavero Notestine Associates and Green Architecture instructor, UC Davis Extension



Sustainability and the Built Environment

ONLINE

Sustainability and the Built Environment

1 quarter unit academic credit, X421.16.
10 hours AICP credit, 10 hours GBCI credit.

This overview of sustainability examines the built environment, from the economic, environmental and social-equity perspectives. Learn how researchers and analysts define sustainability and how they measure and track progress. Explore historical precursors of the current sustainability movement, and how it translates into planning, engineering, architecture, landscape architecture, construction and other fields. Examine planning, design and building problems holistically, and learn about life-cycle analyses. Analyze numerous case studies and specific technologies from around the world.

JEFF LOUX. See page 23.

- Enroll now through May 15 and complete by June 22. Passwords issued starting May 15.
- \$395. Enroll in section 114SDD101.
- Special discounts: BIA and APACA section members. See page 26.

ALSO OF INTEREST



Online Energy Resource Management Certificate

Gain the tools to distinguish yourself as an expert in energy resource management. Explore practical, sustainable applications of energy management, and learn best practices and techniques to improve business competitiveness.

extension.ucdavis.edu/engineering

ONLINE

Building Efficiencies: Low Carbon and Renewable Energy

2 quarter units academic credit, X421.17.
20 hours AICP credit.

Examine the energy issue from the macro perspective of the built environment to the micro approach of how heat flows throughout a building. Using the “whole building” perspective, you will discover some of the natural and mechanical means of heating, cooling and ventilation for improved indoor air quality and cost savings. The breakdown of how energy is used in its final stage is a critical component of a successful sustainable environment. Examine how conservation and the effectiveness of renewable energy sources like solar and solar thermal power, biomass, wind power, hydroelectric and photovoltaic are key elements to achieving energy efficiency. From solar panels and exterior shades to lighting a space and painting a roof white to the issues and technology of bio fuels, learn to analyze energy use as an effective strategy to promote energy conservation in the built environment.

GEORGE TURNBULL. See page 23.

- Enroll now through April 4 and complete by May 18. Passwords issued starting April 4.
- \$650. Enroll in section 114SDD106.
- Special discounts: Groups. BIA members. See page 26.

For online courses:

Enroll anytime between the dates noted. You must provide your email address when enrolling to receive your password to access the course. If you do not receive your password in the time frame noted, please visit the Online Learning Campus Support Center at extensionlc.net/helpdesk. Open a new ticket, and select “Password Issues” from the Help Topics.

Renewable Energy

Renewable Energy Certificate Program

Renewable energy and energy efficiency technologies are key to creating a clean energy future not just for our nation but for the world. Gain in-depth technical training in the treatment of renewable energy systems design. This program combines elements from architecture, civil engineering, environmental and land use planning, and construction management.

REQUIRED COURSES

Sustainability and the Built Environment

Energy Sources, End Uses and Impacts

Green Building Design Studio

AT LEAST 9 UNITS FROM THE FOLLOWING

Cogeneration and District Solutions

Bioenergy Systems Design

Geothermal Energy Systems Design

Small Wind Energy Systems

Solar Photovoltaic (PV) Energy Systems Design

Solar Thermal Energy Systems Design

YOU MUST ALSO COMPLETE THREE ELECTIVE COURSES

extension.ucdavis.edu/greenbuilding

Geothermal Energy Systems: Overview

Noncredit.

Gain an overview of this unique renewable energy resource. Geothermal energy can be used to generate electricity, as a nonelectric energy source for specific industrial processes or for HVAC in buildings and homes. In California, the geothermal base for these applications is exceptionally large, and it has the potential to significantly contribute to meeting the state's goals of reducing greenhouse gas emissions and increasing the use of renewable energy resources. Discover the promise and limitations of geothermal heat pump installation and direct use applications.

LISA MELINE. See page 23.

- 1 meeting.
- April 14: Sat., 8 a.m.–5 p.m.
- Sacramento: Sutter Square Galleria, 2901 K St.
- \$250 (\$295 if postmarked after 03/30/2012). Enroll in section 114ENR604.
- Special discounts: Groups. AEE, BIA and AICP members. See page 26.

Geothermal Energy Systems Design

2 quarter units academic credit, X421.13.

Geothermal energy is a unique renewable energy resource. It can be used to generate electricity in cases where high temperature fluids are found, as a nonelectric energy source for specific industrial processes such as drying vegetables, or for HVAC in buildings and homes. The geothermal base for these applications in California is exceptionally large and has the potential to significantly contribute to meeting the state's goals of reducing greenhouse gas emissions and increasing the use of renewable energy resources. Focus on how to develop this low temperature resource, and cover both theoretical and practical information. Gain the necessary knowledge to understand the promise and limitations of geothermal heat pump installation and direct use applications.

Topics include:

- Heat pump technology
- System components
- Types of ground heat exchangers
- The heating and cooling process
- Costs and incentives

Also explore the theory, design and installation of ground source heat pump systems, the most energy-efficient heating and cooling systems available, with the potential to dramatically reduce electrical power consumption in California. Examine case studies that demonstrate how innovative uses of such systems can benefit your household, organization or community.

Required textbook: *Geothermal Energy: Utilization and Technology*, by Mary Dickson and Mario Fanelli, ISBN 9781844071845. For textbook ordering information, visit the website.

UC DAVIS EXTENSION FACULTY.

- 5 meetings.
- April 26–June 21: Thurs., 8 a.m.–noon (class meets every other Thursday).
- Sacramento: Sutter Square Galleria, 2901 K St.
- \$550 (\$595 if postmarked after 04/12/2012). Enroll in section 114ENR606.
- Special discounts: Groups. AEE, BIA and AICP members. See page 26.

Solar Energy Systems Design

Professional Concentration in Solar Energy Systems and Design

Solar initiatives and incentive programs are fueling the need for photovoltaic and thermal solar designers. Acquire a fundamental understanding and application of solar energy systems design with this program, and explore the various aspects involved in utilizing solar energy systems for residential and commercial use.

REQUIRED COURSES

Solar Photovoltaic (PV) Energy Systems: Overview

Solar Thermal Energy Systems: Overview

Solar Photovoltaic (PV) Energy Systems Design

Solar Thermal Energy Systems Design

Solar Photovoltaic (PV) Energy Systems:
Compliance and Code Overview

extension.ucdavis.edu/greenbuilding

ONLINE

Solar Photovoltaic (PV) Energy Systems: Overview

Noncredit.

Discover answers to your solar energy questions. Find out what switching to solar could mean for your household or organization. Work through an overview of the theory, technologies, applications, issues and benefits of solar energy at the consumer and local levels. Gain useful background information about the solar resources in California and the various federal and state government initiatives to promote solar energy as a mainstream power source, including the latest policies and legislation. Learn about the California Solar Initiative and its future implementation, utility interconnection and net metering issues.

Move from the theoretical to the practical by exploring the various steps to design a solar system and how to maximize its performance. Build your knowledge of: the effects of temperature, orientation, tilt and shading on the energy output; and

how to utilize features of building design to minimize the energy demand and achieve a near “zero-energy” home. This course can be used as an elective for the *Renewable Energy Certificate Program*.

KEN BAKER. See page 26.

- Enroll now through April 6 and complete by April 20. Passwords issued starting April 2.
- \$395 (\$495 if postmarked after 03/19/2012). Enroll in section 114REN205.
- Special discounts: Groups. AEE, BIA and AICP members. See page 26.

ONLINE

Solar Photovoltaic (PV) Energy Systems Design

2 quarter units academic credit, X421.14.

Learn the basics of solar photovoltaic power systems for both residential and commercial use, as well as solar system physics and technology, design and implementation. Examine energy conservation, the economics of solar power systems, passive solar heating systems, the California Solar Initiative and LEED review. Work in teams to design a solar energy system for residential and commercial purposes. Gain the practical skills needed to design a solar power system for your home or business.

Required textbook: *Solar Power in Building Design: The Engineer's Complete Design Resource, 2008*, by Peter Gevorkian, ISBN 9780071485630. For textbook ordering information, visit the website.

Prerequisite: Ability to construct and solve algebraic equations.

KEN BAKER. See page 23.

- Enroll now through May 4 and complete by June 24. Passwords issued starting April 23.
- \$695 (\$795 if postmarked after 04/09/2012). Enroll in section 114REN200.
- Special discounts: Groups. AEE, BIA and AICP members. See page 26.

BEFORE YOU BUY



Textbook information can change.
Check the online course listing for
the most current information.

Common Ground: Center for Cooperative Solutions

Professional Concentration in Conflict Resolution

Acquire a firm foundation in the expanding field of mediation and facilitation. Learn to create collaborative dialogue and gain a solid understanding of the theoretical basis of conflict resolution through this rich hands-on experience. Explore the latest conflict resolution models and how to apply them in interpersonal, organizational, community and international situations.

REQUIRED COURSES

Introduction to Mediation, Facilitation and Community Engagement

**Collaborative Problem-Solving
Mediation**

Facilitating Group Dynamics

Difficult Conversations

ELECTIVE COURSES (ONE OR MORE)

How to Work with Difficult People

Effective Negotiation Strategies

**Community Involvement and Communication
in Planning**

Ethics in the Workplace

extension.ucdavis.edu/cg

ONLINE

Introduction to Mediation, Facilitation and Community Engagement

*2 quarter units academic credit, X414.10.
20 hours AICP credit, 20 hours MCLE credit.*

Become a vital problem-solver in your organization or community. Build a solid foundation in the basics of conflict resolution, with specific focus on the practice of mediation, facilitation and the processes for the prevention and resolution of conflict within communities. Gain an understanding of the history and interdisciplinary roots of the field, as well as the critical issues of which today's mediators must be aware.

MARY MADISON CAMPBELL. See page 23.

- Enroll now through June 4 and complete by July 24. Passwords issued June 4.
- You must begin and end the course on the dates noted above. You will participate in group activities and projects with specific due dates. Assignments will be posted weekly.

- \$625. Enroll in section 114DSD100.
- Special discounts: Groups. APACA section members. See page 26.

Facilitating Group Dynamics

*1 quarter unit academic credit, X414.8.
10 hours MCLE credit.*

Learn and practice the essential facilitation skills and techniques required for successful group and team meetings. Become a vital resource, and gain the ability to create an environment where people can do their best thinking and work. Through discussions, group activities and self-assessments, learn the methods for creating a safe, productive environment and keep groups focused on their goals. Establish principles of ethical facilitation, discuss characteristics of effective teams, and discover how people learn and integrate information.

ELAINE SCHILLING. See page 23.

- 2 meetings.
- June 1–2: Fri.–Sat., 9 a.m.–4 p.m.
- Sacramento: Sutter Square Galleria, 2901 K St.
- \$290. Enroll in section 114DSP121.
- Special discounts: Groups. See page 26.

Managing Workplace Conflict

*.5 quarter unit academic credit, X414.2.
6 hours MCLE credit, 20 hours REHS credit.*

Differences and disagreements between individuals can intensify and negatively impact entire work groups within an organization. Develop the skills to effectively and efficiently resolve these kinds of disputes by understanding the underlying causes of workplace conflict. Learn to distinguish between functional and dysfunctional workplace conflicts, and determine how to effectively manage them. Become skilled at recognizing the stages of conflict, identifying effective methods of intervention and successfully accomplishing the interventions.

LAWRENCE HOOVER. See page 23.

- 1 meeting.
- May 9: Wed., 9 a.m.–4 p.m.
- Sacramento: Sutter Square Galleria, 2901 K St.
- \$290. Enroll in section 114DSP105.
- Special discounts: Groups. See page 26.

COMING SOON...

American River: Ecology, Resource Management and Whitewater

GIS for Resource Managers and Professionals

Online LEED Building Certification

Solar Photovoltaic (PV) Energy System Design

The Wild and Scenic Tuolumne River: Ecology and Water Resources Management

Wetlands Regulation and Mitigation

Writing for Planners, Engineers and Policymakers

Vested Rights, Vesting Maps and Development Agreements

Visit our website for a complete listing of courses.

EXTENSION.UCDAVIS.EDU/LANDUSE

MEET OUR STAFF

NANCY BARKER

This year marks my 10th year as a program representative for Land Use and Natural Resources at UC Davis Extension. My job is interesting and keeps me active and engaged. The greatest plus is that I can make a contribution to the regional community by helping to provide customized training for state, local and other agency staff that oversee California's natural resources.

UC Davis Extension is my fourth career. As a graduate with an M.A. from UC Davis, I was first employed as an archeologist for Nevada's Department of Transportation, until my husband and I took over my family's farm in the Central Valley. Moving to Sacramento some 20 years later, I worked at the Sacramento Metro Chamber, helping to promote Sacramento riverfront venues. Throughout my career transitions and changes, I relied on UC Davis Extension to help me: first to learn farm management, accounting and small business management, and later in the public relations and marketing field. After traveling a winding career path, I feel fortunate to be here helping others advance their careers.



ABOUT THE INSTRUCTORS

KEN BAKER, M.S., is director of engineering for Premier Power Renewable Energy, Inc. He is responsible for the design and engineering of residential and commercial photovoltaic systems. He has more than 30 years of experience in electrical design and 10 years in the renewable energy field. He is a California-licensed professional electrical engineer and California-licensed C-10 electrical contractor.

CYDNEY G. BENDER REENTS, MAI, has been in real estate appraisal and consulting since 1991. Her experience encompasses a broad range of property types including office, retail and residential. She has a complete understanding of the eminent domain process and how it affects project scope, cost and schedules. Reents is currently president of the Sacramento Valley Conservancy.

ANNE M. BRUNETTE served as the real estate property manager and parks planner for the city of Davis overseeing various property related activities and real estate transactions. She was responsible for the acquisition of conservation easements and farm land with corresponding water and access rights, and for city parks master planning.

MARY MADISON CAMPBELL, J.D., is an analyst with the UC Davis Information Center for the Environment. She has written extensively on habitat protection, tire recycling markets, Native American law and transferred development rights, as well as on the environmental issues surrounding Chesapeake Bay. She has also coordinated data collection for nearly 20 state and federal resource agencies and facilitated a watershed group in Monterey, Calif., to address the impacts of California's Highway 1.

DAVID EARLY, M.C.P., M.Arch., is the principal of Design, Community & Environment, an award-winning consulting firm in Berkeley, Calif., that conducts planning, urban design and environmental review projects. Trained as an architect, he currently serves on a building committee for the Center for Urban Family Life and is past president of Urban Ecology.

GREGG ELLIS is a water resource planner with more than 10 years of experience specializing in water resource planning and impact analysis, land use planning and impact analysis, environmental compliance and project coordination. He has also conducted research and provided resource data to use in a multi-disciplinary evaluation of levee systems in the Sacramento-San Joaquin Delta.

SID ENGLAND, Ph.D., is assistant vice chancellor for environmental stewardship and sustainability at UC Davis, former president of the Yolo Audubon Society and a past member of the Audubon California Board of Directors. He has birded extensively in California for more than 30 years and has taught field ornithology and bird identification at UC Davis and UC Riverside.

JONATHAN FOSTER is a project manager, regulatory compliance specialist and biologist with ICF International. He has more than 10 years of experience in project management, interagency coordination, environmental assessment, ecology and regulatory permitting. Foster specializes in helping clients obtain permits and achieve compliance for complex water resource, transportation, energy and natural resources projects.

KELLY S. GEARHEART is a principal with Triple Green Building Group, a green building consulting firm. He is a LEED-accredited professional in both the Building Design & Construction and Operations & Maintenance programs, a USGBC LEED faculty member and instructor for the University of California. Gearhart has been involved with green building education, technical assistance and leadership since 2005.

LARRY GREENE, M.S., is the executive director and air pollution control officer (APCO) of the Sacramento Metropolitan Air Quality Management District. He has served as an APCO for 16 years. Greene is a permanent member on the California Air Pollution Control Officers Association's Board of Directors, and he also serves on the National Association of Clean Air Agencies' Board of Directors.

KEVIN GUSE is an active birder and board member for Yolo Audubon Society. He has traveled extensively throughout North, Central and South America in pursuit of his passion for birds. Guse has been a field trip leader for Yolo Audubon Society for more than 25 years and for Yolo Basin Foundation since the area opened to the public.

LAWRENCE HOOVER, M.A., is director of mediation services at UC Davis. He has 30 years of experience in public sector personnel work and conducts seminars on conflict management and mediation.

BRUCE JACOBSON is a principal with Jacobson & Wack. He is a land use planner and administrator with more than 30 years of experience. He has prepared more than 100 zoning ordinances, development codes, subdivision ordinances and design guidelines. His work on the City of San Bernardino Development Code was recognized with a national award for outstanding planning from the American Planning Association.

JULIA LAVE JOHNSTON is co-director of Land Use and Natural Resources at UC Davis Extension and manages the new Sustainable Studies program. Previously she was deputy director for planning policy in the State Clearinghouse and Planning unit of the Governor's Office of Planning and Research, where she focused on land use, regional and community planning policy, climate change and interagency coordination. She is the section director of the Sacramento Valley Section of the American Planning Association and serves on the state APA board.

HAVEN KIERS, M.L.A., works part time as an instructor for the nonprofit organization Green Roofs for Healthy Cities. She has a green roof consulting firm in Davis, Calif., and is currently designing the green roof for a residential property in San Francisco. Kiers is also the design editor for Greenroofs.com and has written several articles profiling the top trends in green roof design.

JEFF LOUX, Ph.D., is chair of the Science, Agriculture and Natural Resources Department, UC Davis Extension, and adjunct faculty in Environmental Design, UC Davis. He co-directs UC Davis Extension's Land Use and Natural Resources program and is responsible for more than 120 courses, seminars and conferences each year. Loux has authored two books and numerous articles and papers on sustainable urban design, water resources, public participation and environmental and land use policy.

KEVIN MACKAY is a natural resources planner and ecologist with expertise in preparing habitat restoration and mitigation plans, natural resource analyses, habitat evaluations, environmental assessments, land use plans, and multifaceted monitoring and management plans for wetlands and other sensitive habitats.

LISA MELINE is the principal engineer and owner of Meline Engineering. She has 20 years of mechanical engineering experience and more than 25 years of experience in the construction industry. She has prepared HVAC and plumbing designs for commercial, educational, industrial, residential and government buildings throughout California, Nevada, Colorado and Kansas. She is a certified geoechange designer by the Association of Energy Engineers.

RON T. MILAM has extensive experience directing and preparing transportation plans and studies throughout California and other Western states. He has received national recognition for his work, and much of his current work and research is focused on the relationship between travel and greenhouse gas emissions. Milam's experience includes the preparation of regional transportation plans, traffic operation studies, bikeway and pedestrian master plans, transportation improvement programs and traffic impact fee programs.

NANCY PARK is of counsel in the Business Services and Municipal & Redevelopment Law practice groups of Best Best & Krieger's Sacramento office. Her practice concentrates on real estate transactions and finance, representing private and public real estate entities, lenders and borrowers. She also handles limited liability company formation. Previously, Park was the CEO of The Evergreen Company.

JAMES S. POMPY, M.S., MBA, is chief of the California Department of Conservation's Office of Mine Reclamation. He also has more than 25 years of experience in the public and private sectors of the mining industry.

MARK POSSON has more than 30 years of experience in the environmental field, and has a broad background in all aspects of hazardous materials management. Posson sits on several academic and government advisory boards and has taught for UC Davis Extension for more than 15 years.

ANTERO A. RIVASPLATA is a technical director who specializes in CEQA compliance and general plan preparation with ICF International. He has worked as either project manager or CEQA adviser on a variety of projects, including CEQA-NEPA documents for transportation projects, EIRs for general plan updates and NEPA documents for federal and local agencies. Rivasplata is a member of the American Planning Association, the American Institute of Certified Planners and the Association of Environmental Professionals.

M. BLAKE ROBERTS, Ph.D., is an associate with Hauge Brueck Associates in Sacramento. He is involved in community revitalization as an educator, researcher, writer and practicing planner for public and private sectors. His professional and academic experience is focused on downtown revitalization, urban design, zoning and form-based codes, public participation, plan implementation and environmental assessment.

DAVID A. SANDINO, J.D., LL.M., is senior staff counsel for the California Department of Water Resources where his work focuses on water rights and environmental issues. He also serves as counsel for the California Reclamation Board. Sandino has taught water law, energy law and electricity deregulation, environmental law, and local government law at Santa Clara University School of Law and Golden Gate University School of Law. He received a 1999 Fulbright Fellowship and has authored numerous articles about water and environmental issues.

ELAINE SCHILLING, M.P.A., of Pinehurst Consulting, has been a leader and consultant in the corporate and nonprofit sectors, higher education and government. She has focused on developing competencies of managers and leaders, building productive and accountable work teams and environments, evaluating programs and services, and creating competency-based leadership programs.

KEN SCHWARZ, Ph.D., is a founding principal of Horizon Water and Environment with technical expertise in geomorphology, hydrology and watershed management. For more than 18 years, he has directed complex projects throughout California involving flood and stormwater management, erosion and sedimentation, land use planning, water rights, habitat conservation and ecosystem restoration.

LYNN N. SIMON, M.A., is president of Simon & Associates, Inc. Green Building Consultants, a nationally recognized green building consulting firm. As a green building pioneer, she is a leading authority in the industry and has served on the board of directors for several building industry organizations. Simon is a LEED AP and a LEED faculty member, currently serving on USGBC's Education and LEED Steering committees. She is a licensed architect in California and received her AIA Fellowship in 2009.

MEGAN SMITH, a water resources regulatory analyst with ICF International, has more than six years of experience as an attorney for federal and county agencies. Since joining ICF, she has focused on managing preparation of large-scale environmental compliance documents that include environmental assessment, extensive interagency coordination and regulatory permitting elements.

HARRIET A. STEINER, J.D., is a partner in the Municipal & Redevelopment Law practice group of Best Best & Krieger LLP. Previously, she was a shareholder with McDonough Holland & Allen in Sacramento. Steiner's practice focuses on public law representing cities, special districts and joint powers agencies as city attorney, general counsel and special counsel. Her areas of specialty include land use, environmental law, telecommunications law and cable television franchising, wastewater and municipal water, and public financing. She has also worked on air quality and transportation matters, including the Clean Air Act.

LAURA STETSON, AICP, a senior vice president with Hogle-Ireland, Inc., has more than 25 years of experience as a public sector planner and planning consultant. Following a career start with the Riverside County Planning Department, she worked for many years with Cotton Bridges Associates and its predecessor firms before opening Hogle-Ireland's Pasadena office in 2007. Much of her consulting work has focused on preparing general plans and zoning codes for cities throughout California. Stetson is currently creating innovative mixed-use regulations for five new zones in Garden Grove.

SARAH SUTTON, ASLA, is a principal with Design Community & Environment. She joined the firm in 1998 and is a licensed landscape architect, bringing more than 25 years of experience in public and private sector design including streetscapes, trails, parks, housing, green roofs, plazas and creek enhancements. Sutton has a strong background in public works design and construction as well as in management of large and complicated public sector construction projects. As a LEED-accredited professional, her focus is on sustainable design and construction.

MAGGIE TOWNSLEY, M.S., a vice president at ICF International, specializes in developing streamlining strategies in project delivery under NEPA and CEQA for transportation projects for federal, state and local governments. She has completed hundreds of environmental reviews for a variety of public and private projects throughout California. In addition, she coordinates extensively with other federal agencies to secure related environmental permits and approvals, including conformity determinations from the EPA under the Clean Air Act and historic evaluations under the National Historic Preservation Act.

HEIDI TSCHUDIN has nearly 30 years of experience as a land use planner in California. She specializes in land use, transportation and natural resource planning, particularly at the local level, and is considered an expert in CEQA. She has experience in all aspects of land use planning, including long-range planning, policy analysis, environmental analysis, project planning and site development, fiscal impact analysis, transportation studies, and new town and regional planning.

GEORGE B. TURNBULL, M.S., is a former faculty member within the building engineering section of the Department of the Built Environment, Northumbria University, UK, where he specialized in mechanical services (HVAC) and its design with software, CAD, internal climate science, energy and sustainability. Professionally, he has worked in architectural, engineering and building energy efficiency agencies.

ELLEN B. UNSWORTH is a managing editor and technical writer at ICF International, where she works on a wide variety of document types, including CEQA documents, scientific studies, monitoring reports, manuals, construction specifications and interpretative exhibits. In her 13 years as a technical writer and editor, Unsworth has worked for the software industry, academia and the state of Idaho.

DAVID VONASPERN works at the Sacramento County Environmental Compliance Division reviewing and assessing contaminated sites for adequate remediation of soil and groundwater, directing consultants and responsible parties on appropriate steps for site closure status, and protecting human and environmental health. Previously, he was an owner-associate and departmental director of a Sacramento-based consulting firm, where he and his staff produced upwards of 1,000 Environmental Site Assessment reports.

RICHARD WALTER, M.A., is a principal with 19 years of experience in environmental planning, compliance strategy, permitting and mitigation development and implementation. He has worked on numerous controversial and complex environmental planning and compliance projects. Walter has directed and participated in environmental impact assessments, climate action plans, alternatives analysis, and permitting processes for a variety of proposed developments including general plans, land use development, transit and roadway improvements, and wetland restoration.

DAVID B. WRAA has more than 20 years of appraisal experience. Initially specializing in agricultural properties, he later moved on to perform commercial property appraisals throughout the nine-county Bay Area region. Wraa has appraised special use properties including vineyards, schools, theaters and easements, as well as existing and proposed residential and income-producing properties. He holds an MAI designation and is a certified general real estate appraiser in the state of California.

GREG ZITNEY, president of Zitney & Associates in Novato, Calif., has provided environmental, permitting and reclamation planning services to the mining industry and lead agencies for more than 40 years. He is currently the lead SMARA and CEQA consultant for several mining and reclamation projects in California.

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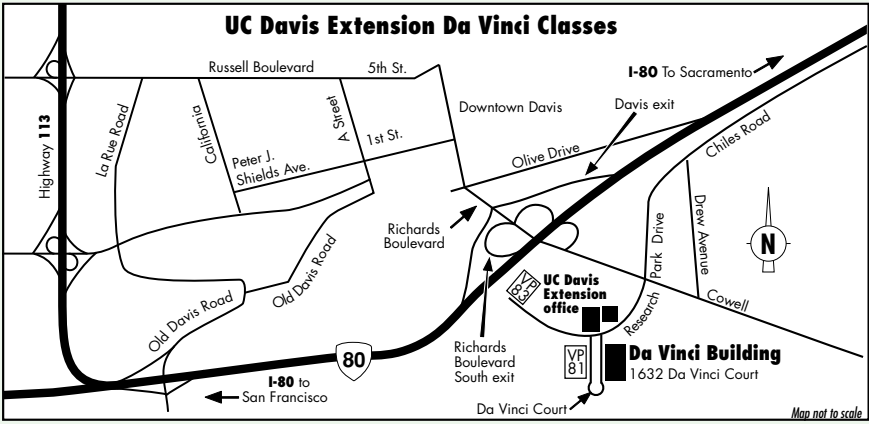
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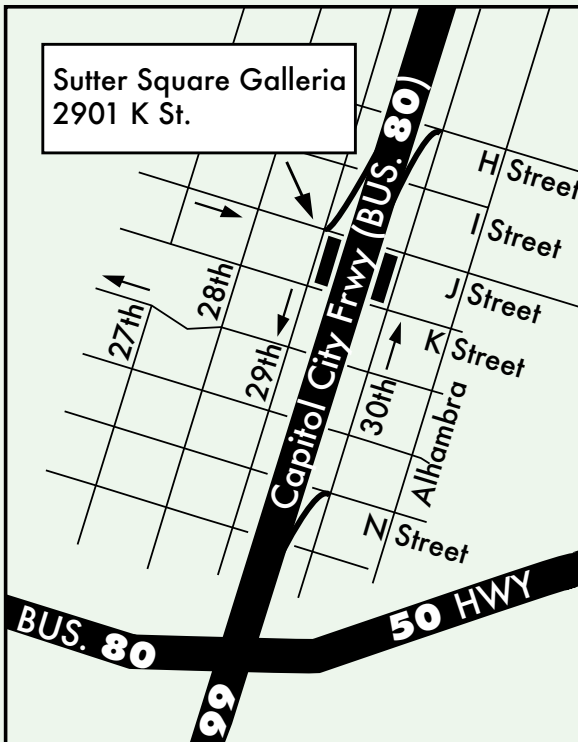
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