## LAND USE AND NATURAL RESOURCES FALL 2017 CALENDAR

### SEPTEMBER

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**Planning Tools to Create Healthy Communities (1)**  
**Mitigation Measure Development and Monitoring (1)**  
**Environmental Planning and Site Analysis (4)**  
**Financial Aspects of Planning (4)**  
**GIS Database Design (4)**  
**Politics and Policymaking (1)**  
**Land Use Planning for Non-Planners: An Introduction to Planning in California (1)**  
**CEQA: A Step-by-Step Approach (1)**  
**EIR/EIS Preparation and Review (1)**  
**Air Quality Analysis (1)**  
**Streambank Assessment and Restoration (1)**  
**Habitat Conservation Planning (1)**  
**GIS for Forestry (3)**  
**Water Quality Regulation and Permitting (1)**  
**Introduction to Geographic Information Systems (3)**  
**Introduction to Conflict Resolution (●)**  

- Online Webinar  
- New! GIS for Forestry  
- Habitat Conservation Planning  
- And More!
ENHANCE YOUR CAREER, YOUR COMMUNITY AND THE ENVIRONMENT with comprehensive education that’s innovative, relevant and taught by recognized experts in the field. Our programs provide real-world learning and exceptional networking opportunities. Learn to protect and manage the environment, and develop strategies to work effectively within the regulatory and environmental context of planning. Gain skills to develop healthier communities, and define effective ways to utilize our natural resources, including energy and water, and discover tools to address and resolve conflicts through better communication. Join us in class this fall! For a full listing of courses or to enroll visit us online.

LAnd Use and Natural Resources Fall 2017 at-a-GLANCE

LAND USE PLANNING

Financial Aspects of Planning
Gain an understanding of how planning decisions impact the economic feasibility of a proposed project for the public agency and developers. Learn about available sources of revenue, how money moves into a geographic agency, what they can or can’t do to increase that flow and how debt fits into the whole equation. RUSS BRANSON, DAVID ZEHNDER, JOHN SPRAGUE, MICHAEL COLEMAN AND STEPHEN DES JARDINS

POLITICS AND Policymaking
Explore the political variables and systems that shape environmental policymaking for land use, energy, infrastructure, mass conservation and climate in municipal, state and federal government. Students will learn how to identify key actors to policy change, write a fact sheet that optimizes a legislative measure’s chances for success and develop an outreach and lobbying strategy. SHAWN EARLE

Planning Tools to Create Healthy Communities
Through hands-on exercises and group discussions, participants will receive an overview of the relationship between the physical, social and economic environments in communities—such as patterns of development, urban design, transportation and food systems—and public health outcomes. MATTIE EAKI

NATURAL RESOURCES

CEQA: A Step-by-Step Approach
Clear and develop your understanding of CEQA and the implications it has for your organization or project. Include topics, but are not limited to: legislative, historical changes to the state CEQA guidelines, CEQA requirements, determining if EIR is required and a judicial review of CEQA decisions. ROBERT EARLE

EIR/EIS Preparation and Review
Learn how to increase efficiency and reduce redundancy by addressing the requirements of both CEQA and NEPA with a combined EIR/EIS document. This hands-on course, you will gain exposure to CEQA and NEPA, as well as participants creating the requirements of both combined in an environmental document. ANGELI RAGUIN

Mitigation Measure Development and Monitoring
Learn how to develop and monitor mitigation measures for different types of projects in California. Focus on the legal basis and land court cases on mitigation measures. Receive practical advice, examples and checklists for developing and monitoring mitigation measures. CARL JENSEN AND JOHN MCCULLAH

Air Quality Analysis
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 air quality analyses, this course provides the principles of air quality assessment and regulation for land use and transportation projects. BRIAN GRATGE

Habitat Conservation Planning
Gain an overview of state and federal endangered species laws and recommendations for best approaches to conservation planning. Explore case studies of simple single species and complex multispecies habitat conservation plans. RICK NORTON AND PAULA BERNAZZI

GEOGRAPHIC INFORMATION SYSTEMS

GIS Database Design
Review industry-standard and emerging data design technologies for GIS databases. Learn how to identify unique data design characteristics, convert logical data definitions and relationships to physical data design, prepare a plan for efficient data loading and manage quality assurance. ROBERT EARLE

NEW! GIS for Forestry
Forest health and protection are among society’s highest natural resource priorities in responding to climate change. Habitat fragmentation and increased wildfire risks. This course provides an introduction to geographic information systems (GIS) with specific applications and case studies in forest management. RALF VOEGEL

WATER RESOURCES

Streambank Assessment and Restoration
Learn the concepts of natural channel form and function in streambanks, and how to determine which restoration methods are most suitable for different types of sites. Techniques for bank stabilization using natural materials and native vegetation will be discussed, including the use of various types of bio and bio structures, reductive techniques versus reactive techniques and bioengineering/bioremediation engineering. CHES BONGS, CHES HAMBERG AND JOHN MCCULLAH

Water Quality Regulation and Permitting
This course will provide a comprehensive overview of California’s state and federal water quality law and regulations, and the federal Clean Water Act. During this interactive workshop, instructors will provide case studies, strategies and recommendations for effectively meeting agency requirements. MICHAEL VONDERGIESST

FOR MORE INFORMATION OR TO ENROLL
CALL (800) 572-0381 EMAIL extension@ucdavis.edu VISIT US ONLINE: extension.ucdavis.edu/landuse

CONFLICT RESOLUTION

Introduction to Conflict Resolution
Become a better problem solver in your organization or community. Build a solid foundation in the basics of conflict management and learn theory and new tools for resolving conflicts. Discover leading models and apply these to current cases to prepare strategies to effectively transform conflicts.

Oct. 16-20: 6 a.m.-4:30 p.m.
Sacramento: Galleria, 2901 K St.
$495 Enroll in section 172GNOT901

FREE INFORMATION SESSION

Join us for this free information session to learn more about our Land Use and Natural Resources Program. Meet our instructors and staff, and find out what our programs can offer you.

Sept. 12: Wed., 9 a.m.-4:30 p.m.
Sacramento: Galleria, 2001 N. 2nd St.
Email in section 172GNOT990

ALSO OF INTEREST

Sustainable Planning: Environmental Site Design
Learn about fundamental planning issues and sustainable processes and systems as GIS and policy decisions. This class includes lectures and experience in ArcGIS, which leads to a working knowledge of GIS and an understanding of the planning design for which GIS is used.

Dec. 6-8: Wed.-Fri., 9 a.m.-4:30 p.m.
Davis: Wicke Hall 24 Bldg.
$725 Enroll in section 172GNOT991

Special Discounts
Many courses offer a 10 percent discount for groups and members of affiliated organizations, including APA, ASLA and BIA. Discounts for CAAA members are also available. Visit our website for more information.

extension@ucdavis.edu

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