

# New Certificate in Global Sustainability

*Get the Knowledge and Skills to Revitalize Your Career and the Planet*

**Make an important difference in the world, your career, and your organization.** Become a leader in environmentally responsible policy and practices with UCLA Extension's new **Certificate in Global Sustainability**.

It's no secret that the green movement is reshaping the way we live and do business. But water conservation, recycling, and hybrid vehicles are just the beginning.

**In 2007, California led the U.S. with about 124,000 green-collar jobs\*** and the demand for sustainability experts—from clean energy consultants to wastewater plant operators to green building designers—is poised for tremendous growth.

Rise to the challenge and establish yourself as a leader in this important new movement.

Discover how UCLA Extension's new Certificate in Global Sustainability can **give your current job the winning edge** or help you **launch an exciting new career that matters!**



*“With all the emphasis in the stimulus and energy bills, there’s going to be new demand and a lot more investment in these [green] businesses, which will mean more jobs.”*

—Joel Yudken, Principal, High Road Strategies

## Multidisciplinary Curriculum

Supported by an advisory board of industry experts, the multidisciplinary curriculum explores sustainability issues and solutions across the often interrelated fields of architecture, design, business, education, engineering, landscape architecture, law, marketing, public policy, real estate, science, technology, and urban planning. The program examines major elements that impact the environment on a daily basis, such as the use of water, air, land, energy, and transportation.

## Program Benefits

- Provides an understanding of sustainability issues and the social, regulatory, business, and technological challenges on both the national and international level
- Positions you to lead environmentally sustainable change and growth within your organization or field
- Adds an important skill set to your professional abilities and resumé
- Helps you forge critical connections between people, the planet, and profits

## Who Should Enroll

- Aspiring entrepreneurs
- Business managers
- Energy efficiency experts
- Environmental advocates
- Teachers
- Health care professionals
- Policy influencers and decision makers
- Engineers and green building contractors
- Facilities managers
- Land use attorneys
- Developers and real estate professionals
- Architects and interior designers
- Graphic designers
- Landscape architects
- Scientists and technology professionals
- Transportation and land use planners
- Community development experts
- And anyone wishing to make a positive impact on the planet!

\*June 11, 2009, Market Watch.com.

# The Curriculum

The Certificate in Global Sustainability is a 36-unit program comprised of three required core courses (12 units), a one-day required ethics seminar, and 24 elective units drawn from an area of concentration.

**Students needn't be enrolled in the certificate program to enroll in individual courses.**

## 3 REQUIRED CORE COURSES (12 units) PLUS 1 REQUIRED SEMINAR

### Principles of Sustainability I: Environmental Dimension (4 units)

This foundation for the study of global sustainability provides a basic understanding of environmental systems.

### Principles of Sustainability II: Economic Dimension (4 units)

Presents a broad overview of sustainability in business using real-world case studies.

### Principles of Sustainability III: Social Dimensions (4 units)

Focuses on the human element of sustainability, with an emphasis on transforming the individual into a global citizen.

### REQUIRED SEMINAR

**Sustainability Ethics (0.6 CEU)**

## Electives/AREAS OF CONCENTRATION (24 units)

Students should choose an area of concentration for their 24 units or elect to customize by selecting general studies. If a student chooses a particular concentration, *only one elective* from a different area of concentration can be applied toward the 24 units. The 24 units may be taken as a combination of one-or-two-day seminars and credit-bearing courses of varying units; 3.6 CEU = 4 units. For additional details call (310) 825-7885, email [sustainability@uclaextension.edu](mailto:sustainability@uclaextension.edu) or visit [uclaextension.edu/sustainabilitycatalog](http://uclaextension.edu/sustainabilitycatalog).

### Design

This concentration focuses on incorporating design strategy in the creation of information, goods, and services that generate ecological, social, and economic value.

*Offered This Quarter*

**Sustainable Building Systems and Materials (4 units)**

**The Public Space Field Sequence: Creating a Walkable Downtown (5 units)**

**Sustainable Practices in Design (4 units)**

**The Ecology of Design (2 units)**

**Urban Design: Principles, Practices, and Tools (0.6 CEU)**

### Business Strategy

This concentration explores sustainable practices and social responsibilities of the business sector.

*Offered This Quarter*

**Carbon Cap and Trade (0.7 CEU)**

**Sustainability Investing (0.7 CEU)**

**Principles of Green Marketing II (4 units)**

**Organizational Change for Sustainability (4 units)**

**Global Business Practices in Sustainability (4 units)**

**Integrating Sustainability into Financial Reporting (4 units)**

**Financial Aspects for Sustainability (0.7 CEU)**

### Energy and Technology

This concentration focuses on developing new energy sources, systems, and technologies while weighing the environmental costs of sustainability issues.

*Offered This Quarter*

**Leadership in Energy and Environmental Design** 🌱 (2 units)

**Leadership in Energy and Environmental Design (2 units)**

**Solar Energy Solution: How to Develop a Working Solar System (2 units)**

**Solar Energy Solution: Harnessing Solar Power in the Home and Office (2 units)**

**Principles of Recycling and Municipal Solid Waste Management (4 units)**

### Environmental Law and Policy

This concentration examines the regulatory agencies responsible for protecting natural resources.

*Offered This Quarter*

**Climate Change: How to Comply with the Body of Regulations (0.6 CEU)**

**Successful CEQA Compliance (1.2 CEU)**

**CEQA: 2010 Updates, Issues, and Trends (0.6 CEU)**

**Property Rights, Takings, and Exactions (0.6 CEU)**

**California's General Plans: Crafting Sustainability, Community, and Culture (0.6 CEU)**

**Urban Design: Principles, Practices, and Tools (0.6 CEU)**

**Managing EIRs and EISs (0.6 CEU)**

**Collaboration, Consensus Building, and Sustainable Development (0.6 CEU)]**

### New This Quarter

#### Education

This concentration addressed the environmental literacy with an emphasis on California's Education and Environment Initiative (EEI).

*Offered This Quarter*

**Green School Design: A Primer for School Administrators (Hybrid) (4 units)**

**Practicum: Green School Design--a Primer for School Administrators (1 unit)**

**Teacher's Tool Kit: Introducing Education and the Environment Initiative (EEI) Curriculum in the K-12 Classroom** 🌱 (1.5 units)

**Environmental Science for Preschool and K-6 Elementary Teachers (3 units)**

**Greener Gardens: Sustainable Garden Practice (4 units)**

### General Studies

This option is for those who want to customize their program of study by taking courses from any of the concentrations.

Turn for spring course descriptions. →→→

# Certificate in Global Sustainability

## Courses Offered This Quarter

### Core Courses

#### Principles of Sustainability I: Environmental Dimension

X 400 Environment 4 units \$525

The first in a three-course series, this introductory survey lays the foundation for the study of global sustainability. With universal principles as a broad framework, the course provides a basic understanding of environmental systems and the interrelationship and effect of humans upon the environment. Topics include a historical overview of sustainability and the current problems and issues, an overview of earth's physical and biological systems and the impact of environmental issues like climate change on these systems, an examination of environmental and urban issues and strategies, and tools to investigate and analyze sustainable environmental practices. *Core course in Certificate in Global Sustainability. Internet access required to retrieve course materials.* 📖

#### Reg# V5984B

- Westwood: G33E UCLA Extension Bldg.
- ✳ Friday, 12:30-9pm, May 14 & 21
- UCLA: 146 Dodd Hall
- ✳ Saturday, 9am-5pm, May 15
- Westwood: G33E UCLA Extension Bldg.
- ✳ Saturday, 9am-5pm, May 22
- UCLA: 175 Dodd Hall
- ✳ Saturday, 9am-5pm, June 5, 5 mtgs.

**Gary A. Lucks**, JD, CPEA, Beyond Compliance  
**Roberto Piccioni**, MS, Beyond Compliance  
**Susan Sakaki**, MPA, Beyond Compliance

#### Principles of Sustainability II: Economic Dimension

X 401 Management 4 units \$525

In this course, gain a broad exposure and intimate knowledge of the business aspects of sustainability through real-world business case study. Key elements include identifying practical tools, measuring performance, and reviewing best practices. Guest speakers and field trips explore both the public and private sectors. Upon completing the course, you have an understanding of the challenging and often competing interests between businesses, regulatory, social, and technological efforts occurring globally. *Prerequisite:* X 400 Principles of Sustainability I: Environmental Dimension. *Core course in Certificate in Global Sustainability. Internet access required to retrieve course materials.* 📖

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#### Reg# V6434B

UCLA: 148 Royce Hall  
 Wednesday, 7-10pm,  
 March 31-June 16, 12 mtgs.

**James Bassett**, PhD, Professor, Cal Poly Pomona

### NEW COURSE

#### Principles of Sustainability III: Social Dimensions

X 402 Environment 4 units \$525

This core course in the Certificate in Global Sustainability focuses on the human element, addressing the adequacy and equity of sustainability efforts and taking the universal principles to a different level that includes environmental justice. The emphasis is on behaviors and characteristics of the individual as well as the larger group and community influences that help shape and transform the individual into a sustainable global citizen. Topics include psychosocial and socio-cultural behaviors affecting beliefs, change, and decision making; potential effects of sustainable action vs. inaction; pathways toward sustainable education and awareness; advocacy and activism; and the ethics of sustainability efforts across nations, including future opportunities and challenges. Includes guest experts, case studies, and site visits. Upon completing this course, students have a preparatory knowledge and understanding of individual and group roles in global sustainability; the interconnectedness and necessity of collaboration between social, economic, and ecological responsibilities; and the importance of advocacy and the media in raising and maintaining awareness of global sustainability and citizenry. *Core course in Certificate in Global Sustainability. Internet access required to retrieve course materials.* 📖

#### Reg# V5756B

Downtown Los Angeles: 261 S. Figueroa St.,  
 Figueroa Courtyard, Suite 100W,  
 Classroom 103

- ✳ Saturday, 9am-12pm,  
 April 3-June 19, 12 mtgs.  
 (no mtg. 5/29; 1 mtg. to be arranged)

**Steve Zikman**, JD, LL.M., Environmental/Land Use Attorney and Mediator

#### Reg# V5755B

UCLA: 6704 Geology  
 Tuesday, 7-10pm,  
 April 6-June 15, 12 mtgs.  
 (1 mtg. to be arranged)

**Sarah Sikich**, MESM, Coastal Resources Director,  
 Heal the Bay

### Required Ethics Seminar

#### NEW SEMINAR

#### Sustainability Ethics

808 Law 0.6 CEU \$350

6 hours of CM credit for AICP certified planners available. 6 hours of MCLE credit available.

(Fee includes refreshments and course materials. After April 30, fee increases to \$375.)

This one-day seminar provides a basic understanding of sustainability ethics and how it differs from more established forms of applied ethics, such as environmental ethics and business ethics. Specifically, what ethical obligations fall on sustainability professionals to think systemically, taking into account the potential impacts of what they recommend or do? Students explore the social and environmental consequences of particular decisions and actions based on case studies from around the globe. *Fulfills ethics requirement in Certificate in Global Sustainability.*

#### Reg# V6486B

- UCLA: 175 Dodd Hall
- ✳ Saturday, 9am-4:30pm,  
 May 15, 1 mtg.  
 No refund after May 7.

**Nurit Katz**, MBA, MPP, Sustainability Coordinator,  
 UCLA

### Design Concentration

#### NEW COURSE

#### Sustainable Building Systems and Materials

X 467.75 Art 4 units \$550

This lecture/discussion course looks at how various building systems have historically been integrated into the design and the construction process. Students study both indigenous structures that use passive design principals and current case studies of buildings that are using the newest systems and materials; compare different green rating systems, including LEED and California's new green building code; and explore multiple aspects of sustainability, including energy, toxicity, green washing, and resource limitations. *Elective course in Certificate in Global Sustainability Concentration in Design. Enrollment limited. Internet access required to retrieve course materials.*

#### Reg# V6828B

- Westwood: 214 Extension Lindbrook Center  
 Monday, 7-10pm,  
 March 29-June 14, 12 mtgs.  
 (no mtg. 5/31; 1 mtg. to be arranged)  
 No refund after April 5.

**Kyle Moss**, AIA LEED AP; MArch, UCLA; Principal, Levitt + Moss Architects, specializing in custom residential and sustainable designs. Mr. Moss is currently designing three "LEED for Home" residences and was the design architect on three completed "LEED for Home" projects, including a LEED Platinum home and a home in the original pilot program.

#### NEW COURSE

#### ◊ The Public Space Field Sequence: Creating a Walkable Downtown

X 493.3C Architecture 5 units \$705

This studio course focuses on the westward expansion of an entertainment and lodging district as part of a greater L.A. Live/Staples/Convention Center complex. Looking across the 110 freeway into the Pico Union neighborhood, the course explore land uses, open space, and streets as the connective tissue linking both sides of the freeway. Working with the Council District, city departments and agencies,

neighborhoods, and property owners, students conduct workshops and come up with final design solutions that focus on sustainability's mandate to integrate pedestrian and public transportation and create multifunctional open/green spaces through master planning. *Prerequisite:* X 472.19 Design VI: Concept Development. *Elective course in Certificate in Global Sustainability Concentration in Design. Internet access required to retrieve course materials.*

#### Reg# V6573B

- Downtown Los Angeles: 261 S. Figueroa St.,  
 Figueroa Courtyard, Suite 100W,  
 Classroom 101A  
 Wednesday, 6-10pm,  
 March 31-June 16, 12 mtgs.

**Sam Hall Kaplan**, reporter and producer for Fox News featured in the series "Beyond the Freeways"; author of the bestselling *L.A. Lost and Found: An Architectural History of Los Angeles* and *L.A. Follies: Design and Other Diversions in a Fractured Metropolis*. Mr. Kaplan also is a mixed media journalist, critic, design consultant, and former columnist for the *Los Angeles Times*.  
**Rhett Beavers**, MLA, BLA, landscape architect (CA 3519, TX 810)

#### NEW COURSE

#### ◊ Sustainable Practices in Design

X 495.20 Architecture 4 units \$595

The City of Los Angeles has several ordinances that address complete streets, LID (low impact development), downtown design guidelines, the landscape ordinance, and a walkable L.A. This course covers designing sites and complete streets, including the principles involved and examples of successful projects. Students assess the design of complete streets, LID, and successful implementation of green infrastructure by first discussing the problems and solutions, then visiting the sites of three different landscape architecture projects in Los Angeles. *Elective course in Certificate in Global Sustainability Concentration in Design. Internet access required to retrieve course materials.*

#### Reg# V6453B

- Downtown Los Angeles: 261 S. Figueroa St.,  
 Figueroa Courtyard, Suite 100W,  
 Classroom 104  
 Wednesday, 7-10pm,  
 March 31-June 16, 12 mtgs.  
 (3 Sat. field trips to be arranged)  
 No refund after April 7.

**Sonia Nicholson**, BArch, AIA, architect (CA 21904)

#### The Ecology of Design

X 467.55 Architecture 2 units \$380

This lecture/discussion course focuses on sustainable design and the processes and tools for implementing changes in the use of our planet's limited resources. Instruction incorporates an overview and analysis of the latest green philosophies, systems, and building products and provides an extensive compilation of current green literature and resources. Guest lecturers are featured. *Elective course in Certificate in Global Sustainability Concentration in Design. Enrollment limited. Internet access required to retrieve course materials.*

#### Reg# V6237B

- Westwood: 214 Extension Lindbrook Center  
 Thursday, 7-10pm,  
 May 13-June 17, 6 mtgs.

**David Randall Hertz**, BArch, Southern California Institute of Architecture; architect; President/Founder, Syndesis, Inc., a multidisciplinary architectural, design, and manufacturing firm known for its development of Syndecrete, an environmentally sensitive precast architectural surfacing material



## Urban Design: Principles, Practices, and Tools

806 Urban Planning 0.6 CEU \$350  
6 hours of CM credit for AICP certified planners available.

(Fee includes refreshments and course materials. After April 30, fee increases to \$375.)  
For more information see page 9.

### Reg# V5985B

Downtown Los Angeles: 261 S. Figueroa St.,  
Figueroa Courtyard, Suite 100W,  
Classroom 102

☼ Friday, 9am-4:30pm,  
May 14, 1 mtg.  
No refund after May 7.

**Woodie Tescher**, AICP, Principal Technical Director of  
Planning & Urban Design, PBS&J  
**Kate Diamond**, FAIA, Principal, NBBJ

## Business Strategy Concentration

### NEW SEMINAR

### Carbon Cap and Trade: Economic and Business Implications

833.627 Management 0.7 CEU \$135  
(Includes course materials; enrollment on the day of the event is \$160.)

This one-day seminar provides a comprehensive overview of carbon markets, from their origins in global efforts to address climate change to the details of regional emissions trading programs. Ideal for individuals who are interested or concerned with future cap-and-trade regulations, people who work in energy intensive industries, project developers, investors, accountants, traders, politicians, lawyers, and business owners, the seminar provides a general knowledge of climate change policy and the effects of treating greenhouse gas emissions (i.e., carbon) as a tradable commodity. Participants are exposed to details of Europe's carbon trading programs and regional carbon markets emerging in North America, as well as the rules of credit trading under the Kyoto Protocol. Additional topics include emission credit types, quality, pricing, new green technologies, allowances versus offset credits, how to meet compliance under an emissions scheme, and types of jobs available in the carbon/green space. *Elective course in Certificate in Global Sustainability Concentration in Business Strategy. Enrollment limited. Advance enrollment is highly recommended. Single admission at the door, space permitting; payment by credit card only.*

### Reg# V4963B

Westwood: 208 Extension Lindbrook Center  
☼ Saturday, 8:30am-4:30pm,  
February 20, 1 mtg.

No refund after February 12.

**Ethan Cowen**, BS, environmental consultant and energy trader

### NEW SEMINAR

### Sustainability Investing

833.819 Management 0.7 CEU \$135  
(Includes course materials; enrollment fee on the day of the event is \$160.)

Sustainable investing is a powerful addition to the investment landscape, reflecting a major shift in the thinking associated with huge environmental and social challenges. By integrating environmental, social, and governance (ESG) issues alongside more traditional financial analysis theory, investors gain a better understanding of the investment risks and opportunities generated by increasing environmental and social pressures. This one-day seminar, intended for both the individual and professional investor, provides an

overview of the current sustainable investing landscape and the investment relevance of sustainability. Instruction presents a primer on ESG analysis, and provides a rationale for consideration of ESG issues in the investment decision-making framework. The seminar also includes a focus on emerging sectors that make up environmental opportunities as well as a discussion of risks and opportunities. *Elective course in Certificate in Global Sustainability Concentration in Business Strategy. Enrollment limited. Advance enrollment is highly recommended. Single admission at the door, space permitting; payment by credit card only.*

### Reg# V4962B

Westwood: 212 Extension Lindbrook Center  
☼ Saturday, 8:30am-4:30pm,  
March 13, 1 mtg.

**Katharine Cook**, CFA, CFP®, Senior Vice President/  
Senior Portfolio Manager, City National Bank

### NEW COURSE

### Principles of Green Marketing II: Strategies for a New Economy

X 480.10 Management 4 units \$450

What are the new standards? How can companies reach the target of sustainability without compromising the bottom line? How can they go beyond image marketing to create truly sustainable brands? From launching new business concepts to re-thinking existing operations, this course provides a set of concrete tools and hands-on case studies to prepare marketing professionals and business owners to win the economic challenges of this new era. *Elective course in Certificate in Global Sustainability Concentration in Business Strategy. Internet access required to retrieve course materials.*

### Reg# V6498B

UCLA: 5138 Math Sciences  
Monday, 7-10pm,  
March 29-June 21, 12 mtgs.  
(no mtg. 5/31)

**Barbara Manconi**, MA, President/CEO, VERT Brands

### Organizational Change for Sustainability

X 456 Management 4 units \$450

Investigate the role organizational change theory plays in leading strategic change to promote green, sustainable products, processes, and organizations. This course introduces techniques aligning language and goals, then presents methodologies that foster culture change and enable employees to participate in transforming companies to more sustainable organizations. Learn how to lead an organization's sustainability program. Examine potential resistance to change and response strategies. Analyze metrics for measuring the success of organizational development efforts on people, planet, and profit, the "triple bottom-line" for "full cost accounting" of an organization's social and societal, economic and ecological success. *Elective course in Certificate in Global Sustainability Concentration in Business Strategy.*

### Reg# V6439B

UCLA: 5128 Math Sciences  
Thursday, 6:30-9:30pm,  
April 1-June 17, 12 mtgs.

**Anita Katzenbach**, Instructor, Sustainability Consultant, Advanced Sustainability Institute  
**Dean Adams Curtis**, MA  
**Michael Boehm**, Partner, HB Sustain

## Global Business Practices in Sustainability

X 481.5 Management 4 units \$450

This course provides a broad overview of global business practices in sustainability designed to help students develop a strong foundation in this complex subject. The primary focus is on the business perspective to help students understand the business rationale for sustainability. Using case studies, students examine why and how a business is addressing environmental and sustainability issues across sectors and industries. The various principles, models, methodologies, and indicators of sustainability also are covered to provide an understanding of how global business awareness and practices in the field have evolved since the concept first emerged in the 1980s. Instruction highlights responses, including public-private partnerships, environmental strategies, socially responsible supply chains, and identifying new markets. *Elective course in Certificate in Global Sustainability Concentration in Business Strategy. Internet access required to retrieve course materials.*

### Reg# V6433B

UCLA: 5137 Math Sciences  
Thursday, 6:30-9:30pm,  
April 1-June 17, 12 mtgs.

**Bianca Maria Philippi**, EdM, President, Creative Insights

### Integrating Sustainability into Financial Reporting

X 423.423 Management 4 units \$395

Company financial statements are going green. Understanding and reporting on the impact of sustainability activities in financial reports is becoming increasingly necessary, both for ensuring compliance with financial reporting standards and to provide stakeholders with material information highlighting sustainability impacts, risks, and opportunities. This course is ideal for accounting and financial professionals, investors, business owners, and executives who must evaluate sustainability performance of a company, organization, or other entity. Instruction encompasses key topics in global sustainability financial reporting, including green accounting and sustainability economics, auditing and reporting, primary and secondary sustainability metrics and indexes, and Global Reporting Initiative (GRI) modeling and monitoring procedures. Students leave the classroom with a framework for reporting and measuring sustainability activity that can be used to benchmark organizational performance and help build future initiatives. *For technical requirements see page 12. Elective course in Certificate in Global Sustainability Concentration in Business Strategy.*

### Reg# V6338B

UCLA: 5118 Math Sciences  
Tuesday, 6:30-9:30pm,  
April 6-June 15, 12 mtgs.  
(1 mtg. to be arranged)

**Felicity T. Wood**, MA, CIA, Senior Financial Consultant, VACO

### NEW SEMINAR

### Financial Aspects for Sustainability

831.818 Management 0.7 CEU \$135

Companies and organizations of all sizes need to balance the promise of "green" initiatives with the ongoing obligation to contain costs and deliver sustainable bottom-line results. Designed for financial executives and managers, entrepreneurs, investors, and students in finance and accounting, this one-day seminar provides an overview of sustainability practices that can actually have positive impacts on a firm's profitability. Topics include how to manage a greening balance sheet; measuring and reporting the financial impact of sustainability efforts; the sustainability effect on market valuation; and how sustainability initiatives can help serve and satisfy employees, investors, customers, and the community. Includes case studies outlining specific sustainability practices that have helped improve overall financial performance. *Elective course in Certificate in Global Sustainability Concentration in Business Strategy. Enrollment limited to 35 students. Advance enrollment is highly recommended. Single admission at the door, space permitting. Payment by check or credit card only.*

### Reg# V6317B

Westwood: 211 Extension Lindbrook Center  
☼ Saturday, 9am-4pm,  
May 8, 1 mtg.

*Instructor to be announced*

## Energy and Technology Concentration

### Leadership in Energy and Environmental Design

X 407.15 Engineering 2 units \$500

The LEED (U.S. Green Building Council Leadership in Energy and Environmental Design) rating system has grown in interest since organizations such as the Los Angeles Community College District, City of Los Angeles, Pasadena, Culver City, and state agencies have mandated the LEED standard. This course provides participants with an understanding of the LEED rating system and is intended for public agency administrators, architects, engineers, building owners, construction managers, and environmentalists, among others. To provide flexibility to these busy professionals, links to resources on the web are given so topics can be explored independently and in more depth. Timed sample exams familiarize participants with the LEED GA and LEED AP examination. *For technical requirements see page 12. Elective course in Certificate in Construction Management and Certificate in Global Sustainability Concentration in Energy and Technology. Enrollment limited.*

### Reg# V4574B

February 17-March 24

**Dimitris Klapsis**, LEED AP, Senior Project Manager

🏠 UC credit; see page 169

🖥️ Online course

◇ Not available passed/not passed

📖 Text required; see page 168

☀️ Course held during daytime hours

  
ucla extension  
sustainability

### ◆ Leadership in Energy and Environmental Design

X 407.15 Engineering 2 units \$450  
The LEED (U.S. Green Building Council Leadership in Energy and Environmental Design) rating system has grown in interest since organizations such as the Los Angeles Community College District, City of Los Angeles, Pasadena, Culver City, and state agencies have mandated the LEED standard. This course provides participants with an understanding of the LEED rating system and is intended for public agency administrators, architects, engineers, building owners, construction managers, and environmentalists, among others. To provide flexibility to these busy professionals, links to resources on the web are given so topics can be explored independently and in more depth. Timed sample exams familiarize participants with the LEED GA and LEED AP examination. *Elective course in Certificate in Construction Management and Certificate in Global Sustainability Concentration in Energy and Technology. Enrollment limited.*

#### Reg# V6178B

UCLA: 5436 Boelter Hall  
Tuesday, 6-9pm,  
April 6-May 11, 6 mtgs.

**Dimitris Klapsis**, LEED AP, Senior Project Manager

### ◆ The Solar Energy Solution: How to Develop a Working Solar System

X 425.11 Engineering 2 units \$425  
(Includes course materials.)  
This course is intended for those who want to understand the principles required in designing a system that offsets their home and/or business power requirements through the use of solar energy. Topics include how to calculate anticipated load requirements (and the respective quantitative load analysis), the proper installation techniques required to assure the mutual integrity of both the system and the equipment's mounting base, methods of monitoring online systems performance, and the correct maintenance procedures required to assure maximum efficiency of the system. Typical solar system models (both thermal and electrical) are considered in which the prerequisite subsystems and their associated components are integrated into a final conceptual working system. Students perform a preliminary system design evaluation and learn how to select the system's necessary components. *Prerequisite:* X 425.10 The Solar Energy Solution: Harnessing Solar Power in the Home and Office or consent of instructor. *Elective course in Certificate in Construction Management and Certificate in Global Sustainability Concentration in Energy and Technology.* ☞

#### Reg# V4590B

UCLA: 110 La Kretz Hall  
Wednesday, 6:30-9:30pm,  
February 17-March 24, 6 mtgs.

**Rodney W. Bergen**, BEE, Registered Professional Engineer; President, Quantum Sciences, Inc.

#### Reg# V6071B

UCLA: 110 La Kretz Hall  
Wednesday, 6:30-9:30pm,  
May 12-June 16, 6 mtgs.

**Rodney W. Bergen**, BEE, Registered Professional Engineer; President, Quantum Sciences, Inc.

### ◆ The Solar Energy Solution: Harnessing Solar Power in the Home and Office

X 425.10 Engineering 2 units \$425  
(Includes course materials.)  
This introductory course is designed for individuals or organizations interested in augmenting their home and/or business power requirements with solar energy. An overview of the knowledge needed to perform a preliminary system design is presented as well as how to select, purchase, and install the necessary system components. Solar energy in its various forms is discussed, with a primary emphasis on solar electricity (i.e., how it can be locally generated, stored, and utilized). Topics include the various types of anticipated electrical loads and the techniques required to perform the respective quantitative load evaluations. Students

then consider a solar electrical model in which the prerequisite subsystems and their associated components are assessed and integrated into a final conceptual system. The means by which online systems performance may be monitored and the maintenance procedures required to assure maximum efficiency also are carefully reviewed. This course is primarily intended for anyone with a general educational background who is interested and concerned about the financial, environmental, and self-sufficient aspects of solar energy. Home and business owners, contractors, entrepreneurs seeking business opportunities, and those who have a keen interest in the technology should benefit from this course. *Elective course in Certificate in Construction Management and Certificate in Global Sustainability Concentration in Energy and Technology.*

#### Reg# V6067B

UCLA: 110 La Kretz Hall  
Wednesday, 6:30-9:30pm,  
March 31-May 5, 6 mtgs.

**Rodney W. Bergen**, BEE, Registered Professional Engineer; President, Quantum Sciences, Inc.

### ◆ Principles of Recycling and Municipal Solid Waste Management

X 438 Engineering 4 units \$575  
Designed for those new to the recycling and solid waste management industry, this introductory course covers the nature and composition of municipal solid waste as well as the current "integrated waste management approach" and the practices of waste reduction, recycling, and transformation/disposal of solid waste. A broad overview is given of the legal and regulatory framework that governs the industry and the various technologies utilized in the management of solid waste. Students are provided with a basic understanding of the individual systems components of the overall solid waste management system, including collection, recycling facility operations, transportation, materials processing, landfilling, and other recycling/waste management practices and how they interrelate. Statistical techniques used to project future waste generation quantities and composition are covered as well as how to use solid waste and recycling information databases found on the Internet. Case studies of how jurisdictions, solid waste management companies, and private companies develop and implement their recycling and solid waste management programs also are discussed. *Required course in Certificate in Recycling and Municipal Solid Waste Management. Elective course in Certificate in Global Sustainability Concentration in Energy and Technology. Internet access required to retrieve course materials.* ☞

#### Reg# V6542B

UCLA: 5273 Boelter Hall  
Monday, 6:30-9:30pm,  
March 29-June 21, 12 mtgs.  
(no mtg. 5/31)

**Eugene Tseng**, JD, Principal, Tseng and Associates; recipient, UCLA Extension Distinguished Instructor Award, 2008

## Environmental Law and Policy Concentration

### NEW COURSE

#### Climate Change: How to Comply with the Body of Regulations

869.1 Urban Planning 0.6 CEU \$350  
6 hours of CM credit for AICP certified planners available. 6 hours of MCLE credit available. *(Fee includes refreshments and course materials. After February 3, fee increases to \$375.)*

After decades of debate, climate change is now emerging as the basis for statutory compliance requirements and market-driven economic activities. California has been a leader in this transition and recently enacted AB 32 to establish statewide emission limits and enforceable standards to meet those limits, which will profoundly affect certain California industries and create costs and opportunities for many more. This course covers requirements set forth in AB 32 and other laws, greenhouse gas inventories, registration of emissions

and offsets, emissions trading, and carbon reduction strategies. Attendees learn about emerging California requirements to quantify and control greenhouse gas (GHG) emissions and the associated market mechanisms and opportunities. Includes examples of specific evaluation and reporting methodologies. This course should interest a broad spectrum of Californian entities since anything that uses energy will be affected by AB 32 and other laws and programs. It is of particular value to those sectors subject to compliance requirements as well as entrepreneurs and service providers interested in providing goods and services to assist compliance and/or provide offsets. *Elective course in Certificate in Global Sustainability Concentration in Environmental Law and Policy.*

#### Reg# V5328B

Downtown Los Angeles: 261 S. Figueroa St.,  
Figueroa Courtyard, Suite 100W,  
Classroom 102

☞ Wednesday, 9am-4:30pm,  
February 17, 1 mtg.

*No refund after February 10.*

**Gary Lucks**, JD, CPEA, Principal, Beyond Compliance, LLC

### Successful CEQA Compliance: A Step-by-Step Approach

866 Law 1.2 CEU \$495  
12 hours of CM credit for AICP certified planners available. 12 hours of MCLE available.

*(Fee includes refreshments and course materials. After February 11, fee increases to \$520.)*  
The California Environmental Quality Act (CEQA) forms the backbone of the state's system of environmental protection. CEQA requires governmental agencies to evaluate and consider the environmental impacts of a broad variety of projects that they carry out or approve. Thus, CEQA has important ramifications for both public entities and the private sector. CEQA also provides for public involvement, making it an important tool by which citizens and interest groups can participate in government planning and decision-making. This two-day workshop presents the fundamentals of CEQA, with emphasis on the policies, procedures, and practices necessary to make it successful. The workshop is designed for anyone new to CEQA as well as those needing a comprehensive refresher and should be of particular interest to public officials, agency staff, project applicants, attorneys, consultants, and interested citizens. *Elective course in Certificate in Global Sustainability Concentration in Environmental Law and Policy.*

#### Reg# V4763B

Pasadena: The Madera Room, The Westin  
Pasadena Hotel, 191 N. Los Robles Ave.

☞ Thursday & Friday, 9am-4:30pm,  
February 25 & 26, 2 mtgs.

*No refund after February 18.*

**Ron Bass**, JD, AICP, Senior Regulatory Compliance Specialist, ICF Jones & Stokes; co-author, *The CEQA Deskbook* (Solano Press); recipient, UCLA Extension Distinguished Instructor Award, 2007

**Jonathan Riker**, JD, Environmental Counsel/Project Manager, ICF Jones & Stokes

### UPDATED FOR 2010

#### CEQA: 2010 Updates, Issues, and Trends

866.1 Law 0.6 CEU \$350  
6 hours of CM credit for AICP certified planners available. 6 hours of MCLE credit available. *(Fee includes refreshments and course materials. After May 26, fee increases to \$375.)*

The California Environmental Quality Act (CEQA) is a complex and dynamic law that changes from year to year. Keeping abreast of the latest developments is essential for professionals involved in any aspect of environmental impact assessment. This 2010 update features the latest legislative amendments, proposed revisions to the CEQA Guidelines, and court decisions handed down in the past year. The course also includes key issues and trends in CEQA practice at the state and local levels. Since the National Environmental Policy Act (NEPA) has a profound influence on CEQA practice and interpretations, the course also highlights the most important changes at the federal level

relating to environmental impact assessment. *Elective course in Certificate in Global Sustainability Concentration in Environmental Law and Policy.*

#### Reg# V5986B

Downtown Los Angeles: 261 S. Figueroa St.,  
Figueroa Courtyard, Suite 100W,  
Classroom 102

☞ Wednesday, 9am-4:30pm,  
June 9, 1 mtg.

*No refund after June 2.*

**Ron Bass**, for instructor credits see this page.

**Margaret Moore Sohagi**, JD, President, The Sohagi Law Group, PLC; recipient, UCLA Extension Distinguished Instructor Award, 2006

### Property Rights, Takings, and Exactions

854 Law 0.6 CEU \$425  
6 hours of CM credit for AICP certified planners available. 6 hours of MCLE credit available. *(Fee includes refreshments and textbook. After April 9 fee increases to \$450.)*

This seminar examines how far public agencies can go in restricting the use of land without violating "property rights." Instruction also considers opportunities for local governments to impose impact fees, dedication requirements, and other "exactions" as part of the development process, as well as the legal restrictions that apply. Development agreements—complex agreements between public agencies and developers that have become increasingly important planning tools—also are addressed. New cases from the federal and California courts are covered. The seminar presents both public agency and developer perspectives. *Elective course in Certificate in Global Sustainability Concentration in Environmental Law and Policy.*

#### Reg# V5920B

Westwood: 204 Extension Lindbrook Center

☞ Friday, 9am-4:30pm,  
April 23, 1 mtg.

*No refund after April 16.*

**M. Thomas Jacobson**, JD, AICP, Professor, Sonoma State University; Director, Institute for Community Planning Assistance; recipient, UCLA Extension Distinguished Instructor Award, 2008

**Bill Higgins**, JD, Legislative Representative, League of California Cities, Institute for Local Self Government

### UPDATED FOR 2010

#### California's General Plans: Crafting Sustainability, Community, and Culture

864.2 Urban Planning 0.6 CEU \$350  
6 hours of MCLE credit available.

*(Fee includes refreshments and course materials. After April 16, fee increases to \$375.)*

Climate change legislation, new housing standards, green design, flood prevention, form-based planning, and environmental justice: these are just a few examples of new initiatives that shape and reshape California's comprehensive planning statutes. With these issues and increasing public intervention in community development decisions, an up-to-date general plan is a critical component in a community's arsenal to manage growth. Cities, counties, and community groups are insisting upon well-conceived plans that incorporate both innovation and realism, confront growth issues while conserving community character, and create effective tools to reach consensus. This seminar illustrates what those plans look like and what they must contain to meet increasingly stringent state standards. If you have a general plan update approaching, here is a seminar of value to both professionals and lay practitioners undertaking new plans and major revisions. The program includes both legal fundamentals and hot-button topics like smart growth and sprawl; recent court decisions; and each aspect of a plan's development, formulation, and implementation. *Elective course in Certificate in Global Sustainability Concentration in Environmental Law and Policy; to learn more about this new certificate program see page 4.*

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**Reg# V6845B**

Downtown Los Angeles: 261 S. Figueroa St.,  
Figueroa Courtyard, Suite 100W,  
Classroom 102

☼ Friday, 9am-4:30pm, April 30, 1 mtg.  
No refund after April 23.

**Catherine Showalter**, Director, Public Policy Program,  
UCLA Extension

### Urban Design: Principles, Practices, and Tools

806 Urban Planning 0.6 CEU \$350  
6 hours of CM credit for AICP certified planners  
available. 6 hours of MCLE credit available.  
(Fee includes refreshments and course materials.  
After April 30, fee increases to \$375.)

Urban design sits at the intersection of urban planning, architecture, and landscape architecture. The principles, practices, and value of good urban design are examined in this seminar, which focuses on both private development and public improvements (e.g., streetscapes, public buildings, and spaces). Instruction addresses the tools and processes that planners, architects, city staff, and developers can use to achieve high-quality urban design through regulatory and policy documents, design guidelines and standards, and the development and design review processes. The seminar explores urban design applications and tools in different contexts (e.g., redevelopment, downtown revitalization, infill, transit-oriented development, and new suburban development) as well as public processes for developing a community's urban design strategy. *Elective course in Certificate in Global Sustainability Concentration in Environmental Law and Policy and Concentration in Design.*

**Reg# V5985B**

Downtown Los Angeles: 261 S. Figueroa St.,  
Figueroa Courtyard, Suite 100W,  
Classroom 102

☼ Friday, 9am-4:30pm, May 14, 1 mtg.  
No refund after May 7.

**Woodie Tescher**, AICP, Principal Technical Director of  
Planning & Urban Design, PBS&J  
**Kate Diamond**, FAIA, Principal, NBBJ

### Managing EIRs and EISs: Strategies for Success

877.1 Law 0.6 CEU \$350  
6 hours of CM credit for AICP certified planners  
available. 6 hours of MCLE credit available.  
(Fee includes refreshments and course materials.  
After May 20, fee increases to \$375.)

This seminar tackles the day-to-day practical issues and challenges involved in managing preparation of the Environmental Impact Reports (EIRs) and Environmental Impact Statements (EISs) required by state and federal environmental law. Instruction equips project managers, report reviewers, and others involved in preparation or review with the management tools that can help them run projects more smoothly, ensure successful products, and avoid legal challenges. *Elective course in Certificate in Global Sustainability Concentration in Environmental Law and Policy.*

**Reg# V5929B**

Westwood: 204 Extension Lindbrook Center

☼ Thursday, 9am-4:30pm, June 3, 1 mtg.  
No refund after May 27.

**John E. Bridges**, FAICP, Senior Vice President, P&D  
Consultants.

**Tom Smith**, AICP, FSMPS Principal

**NEW COURSE**

### Collaboration, Consensus Building, and Sustainable Development: Creating Better Decision-Making Frameworks, One Community at a Time

807 Urban Planning 0.6 CEU \$350  
6 hours of CM credit for AICP certified planners  
available. 6 hours of MCLE credit available.  
(Fee includes refreshments and course materials.  
After May 27 fee increases to \$375.)

The connection between land use planning decisions and sustainability is at the heart of recent laws like AB32 and SB375. But while the content of this pioneering legislation was formulated with some clarity in Sacramento, the process by which decisions will be made throughout California has yet to be determined. Approaches based on interest-based negotiation, consensus building, and more robust forms of public engagement—especially when implemented early in the process—can help create more sustainable communities in an era that demands greater transparency, collaboration, and participation in government. Using highly interactive techniques, this course explores the opportunities and constraints that lie ahead and seeks to develop the creative leadership skills needed to address tomorrow's challenges. Public agency officials and staff, planning practitioners, architects, environmental professionals, consultants, developers, project applicants, engineers, public and private sector attorneys, school administrators, resource managers, transportation planners, city managers, community leaders, citizen activists, and elected officials are encouraged to participate. *Elective course in Certificate in Global Sustainability Concentration in Environmental Law and Policy.*

**Reg# V6479B**

Downtown Los Angeles: 261 S. Figueroa St.,  
Figueroa Courtyard, Suite 100W,  
Classroom 102

☼ Thursday, 9am-4:30pm,  
June 10, 1 mtg.

No refund after June 3.

**Steve Zikman**, JD, LLM, Environmental/Land Use  
Attorney and Mediator

## Education Concentration

**NEW COURSE**

### Green School Design: A Primer for School Administrators (Hybrid)

X 424.67 Education 4 units \$475  
Energy-efficient schools use fewer natural resources, cost less to operate, and reduce environmental impact significantly when compared to conventional schools. Progressive-minded schools leaders discover ways to make meaningful improvements to their campus and surrounding communities through this introductory course on sustainable school campus design and operations. Intended for public, charter, and independent school leaders, this course explores the operation of working green schools. Students attending these sustainable facilities learn daily about the environment and the importance of saving energy, water, and other natural resources, as they observe and interact with their surrounding learning environment. Learn about the planning, design, construction, and operation of an energy-efficient high-performance school to help school administrators, custodial staff, and board members make smarter choices about green school finance, design goals/concepts, and innovative construction techniques and/or renovation strategies to achieve a sustainable school campus. *For technical requirements see page 163. Elective course in Certificate in Global Sustainability Concentration in Education. This course includes online sessions and classroom meetings. Credit students must attend all classroom meetings and log on to the course by the first week of class and fully participate in all sessions as outlined by the course syllabus.*

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**Reg# V6209B**

Classroom meetings:  
UCLA: 154 Dodd Hall  
Tuesday, 7-10pm,  
March 30; April 13 & 27;  
May 11 & 25; June 8  
Online sessions:  
April 6-June 15

**Gaylaird Wiley Christopher**, AIA, President, Architecture for Education, Inc.

**NEW COURSE**

### Practicum: Green School Design— A Primer for School Administrators

X 427.67P Education 1 unit \$100  
This one-unit practicum is a supplement to X 427.67 Green School Design: A Primer for School Administrators. The practicum requires a portfolio and a reflection essay to demonstrate practical application of course content. *Prerequisite:* X 427.67 Green School Design: A Primer for School Administrators. *Elective course in Certificate in Global Sustainability Concentration in Education. Valid e-mail address required.*

**Reg# V6233B**

Los Angeles: Location to be announced  
Tuesday, 5:30-10pm,  
June 22 & 29, 2 mtgs.

**Gaylaird Wiley Christopher**, AIA, President, Architecture for Education, Inc.

**NEW COURSE**

### Teacher's Tool Kit: Introducing Education and the Environment Initiative (EEI) Curriculum in the K-12 Classroom

X 324.69 Education 1.5 units \$225  
This course introduces environment-based curriculum across academic disciplines in correlation with the Environmental Education Initiative (EEI) curriculum. EEI legislation signed into law in 2003 requires the state to develop environmental principles and concepts to complement California's academic content standards. Eighty-five curriculum units designed for grades K-12 in the areas of Science, History/Social Science, and English/Language Arts help students achieve mastery of California's Academic Content Standards in the context of California's approved Environmental Principles and Concepts. The curriculum will be disseminated by mid-2010. This course trains teachers to adopt these units for use in the classroom and is taught by one of the authors of the curriculum. *For technical requirements see page 163. Elective course in Certificate in Global Sustainability Concentration in Education. Enrollment limited to 25; advance enrollment required. Credit students must log on to the course by the first week of class and fully participate in all sessions as outlined in the course syllabus.*

**Reg# V6269B**

April 10-17

**Anastasia Lynn Betts**, MEd, Director, Curriculum and Instruction, Seven Arrows Elementary School

### Environmental Science for Preschool and K-6 Elementary Teachers

X 326.12 Education 3 units \$265  
Applies toward Title 22 Regulations and Title V Child Development Permits; elective course for both Basic and/or Advanced Core Certificates Programs, Certificate in Global Sustainability: Concentration in Education, and for K-6 elementary teachers. This fast-paced and exciting course presents an assortment of practical and fun activities that relate to environmental studies. Participants examine environmental issues and ways to empower young children to take responsibility for the environment. Topics include endangered and extinct animals; water, land, and air pollution; the importance of rain forests; replenishing natural resources; classroom projects that encourage recycling and reusing; environmental programs that can be implemented school-wide; and integrating environmental studies into your existing curriculum. Participants walk away with ideas that can be used in class immediately. *Elective course in Certificate in Global Sustainability Concentration in Education. Enrollment*

limited; advance enrollment required. Credit students must attend all meetings; no credit is awarded if a meeting is missed.

**Reg# V6563B**

Westwood: 307 1010 Westwood Center  
☼ Sunday, 8:30am-4:30pm,  
May 23; June 6, 13 & 20, 4 mtgs.  
Enrollment deadline: May 17.

**Holly Dye**, MA, author; elementary school teacher,  
Simi Valley School District

**NEW COURSE**

### Greener Gardens: Sustainable Garden Practice

X 498.10 Biology 4 units \$375/\$325  
Sustainability is today's buzzword and many people seek to create a lifestyle with a more favorable impact on the environment. From home and school gardens, to commercial sites, our gardens present the perfect place to start. This course is designed for horticulture students, gardening professionals, educators, and home gardeners and focuses on turning your green thumb into a "greener" garden. Topics include composting; irrigation; water harvesting; water wise plants; eating and growing local produce; recycling; and moving away from a consumptive, non-sustainable lifestyle when choosing materials and tools. Includes weekend field trips to the Los Angeles River to see our relationship with water in the L.A. Basin, as well as the Rancho Santa Ana Botanical Garden, focusing not only on California native plants but also on water-conserving planting design. Students also visit the John T. Lyle Center for Regenerative Studies at Cal Poly Pomona, which advances the principles of environmentally sustainable living through education, research, demonstration, and community outreach. *Elective course in Certificate Program in Gardening and Horticulture and Certificate in Global Sustainability Concentration in Education.*

**Reg# V6500B** \$375 (Credit)**Reg# V6501B** \$325 (Noncredit)

UCLA: 2760 Boelter Hall  
Monday, 6:30-9:30pm,  
April 5-June 7, 12 mtgs.  
(no mtg. 5/31; 3 Sat. field trips: 5/8, 5/29 & 6/12, 9am-12pm)

**David King**, Gardener/Director, The Learning Garden Foundation

**Orchid Black**, Owner, Pitcher Sage Design, a sustainable garden business with an emphasis on native plants and water conservation