

# UC Berkeley Extension Professional Program in Sustainability and Energy

## REQUIRED COURSE DESCRIPTIONS

### **Energy Use and Climate Change – *Required***

X435 (1 semester unit in Natural Resources)

Current U.S. energy consumption pattern is not sustainable. Learn how reliance on fossil fuels creates security, climate change, and public health issues. Examine the threat from the lack of significant incentives to change behavior and shift habits toward sustainable energy consumption in the United States. Study the fundamental impacts from our current energy use and the support infrastructure. Explore our options in transitioning to renewable energy sources and to more sustainable habits.

### **Energy for Sustainability: Technology, Planning, and Policy – *Required***

X436 (1 semester unit in Natural Resources)

Review the environmental impact of global energy systems, energy-use life cycle, and alternative options. Learn strategies from energy efficiency, conservation, renewable energy sources, green buildings, environmental responsibility, and emerging clean tech innovations. Study the financial impact these strategies have on our economy and their effect on global climate change. Evaluate policies, regulations, and legislations at local and state level. Learn how energy strategies impact residential, commercial sectors, corporations, and government. Examine issues in science, technology, policy, law and business.

### **Introduction to Sustainability Management – *Required***

(0.7 ceu)

Examine the paradigm of sustainability in the context of environmental, economic, and social forces that shape emerging policies and management decisions. Investigate the possibility of creating a common set of sustainability principles that apply to industries, institutions, and individuals. Understand how these principles affect diverse global demographic groups and create challenges for local and regional managers. Learn basic information, concepts, methods, and tools for assessing, implementing, and managing sustainability initiatives to build a foundation for a sustainable future.

### **Climate Change and Law AB 32: What It Means for You – *Required***

(0.7 ceu)

After decades as a scientific and political issue, climate change now emerges as the basis for statutory compliance requirements and market-driven economic activities. California has been a leader in this transition for a number of years, and recently enacted AB 32 to establish statewide emission limits and enforceable standards to meet those limits. Learn requirements set forth in AB 32 and other laws and gain a solid understanding of related issues.