**UC Irvine**

**CERTIFICATE PROGRAMS**

1. **Sustainable Business Management**

### Program Objectives

* Identify current and future key environmental regulatory compliance legislation that impacts organizational strategy, planning and operations. a broad, systems-thinking approach to affect every value-creation lever responding to government legislation consumer concerns and stakeholder pressure.
* Link competitive advantage and corporate social responsibility to assess strategic opportunities and risks while minimizing potential liability.

### Who Should Attend

Individuals seeking a career change or positions within the sustainability field, managers, directors, architects, urban planners, landscape architects, designers, business owners, consultants, and all those responsible for going “green.”

**COURSES:**

Introduction to Corporate Social Responsibility, Sustainability and Green Business ( 3 units )

**Course #** MGMT X430.12

The explosion of corporate social responsibility into mainstream business decision-making has been fueled by an unprecedented number of recent environmental, financial, legal, social and climate events.

Legal Developments Concerning the Environment and Climate Change

**Course #** SOCECOL X416.5

A general sense of urgency, and the realization that there is little time to waste, has given rise to a host of legislative and regulatory enactments. Review global and federal developments, with particular attention on developments in California.

Framework for Strategic Leadership

**Course #** SOCECOL X417.21

The course will also provide an overview of the LEED system for sustainable construction; examine traditional professional and contract liabilities and how these liabilities and associated risks may be expected to play out in the new arena of sustainability.

Green Marketing Principles: Winning Strategies for a New Era

**Course #** MGMT X461.63

Socio-economic, cultural and legislative pressures are creating an inevitable tide towards a future in which companies will be more socially responsible and provide cleaner and more efficient products and services that damage the planet less.

Climate Protection and Environmental Sustainability

**Course #** ENGRCEE X468

 In this course you will explore the forces driving sustainability change, the application of sustainable practices, and be guided through an analysis that will help you develop a vision and plan for implementation.

Sustainability Reporting: Drivers, Protocols and Quantitative Methods

**Course #** SOCECOL X417.26

This course introduces students to the typical drivers and stakeholders associated with sustainability programs; some of the available reporting protocols; factors to consider when selecting KPIs and metrics; and how to establish goals and describe performance on a quantitative or qualitative basis.

The Social Component of Sustainability

**Course #** SOCECOL X417.37

Identify various social impacts as opportunities for adopting sustainable practices, including life-cycle analyses and community engagement strategies that will inspire your consumer base, adding value beyond direct Return-On-Investment (ROI).

**Courses treated as Full Time/Part Time in the field of Engineering.**

**Mechanical Engineering:**

[**http://www.editor.uci.edu/catalogue/engr/engr.11.htm**](http://www.editor.uci.edu/catalogue/engr/engr.11.htm)

**MAE117 Solar and Renewable Energy Systems**

**MAE118 Sustainable Energy Systems**

**MAE170 Introduction to Control Systems**

**MAE183 Computer-Aided Mechanism Design**

**MAE218 Sustainable Energy Systems**

**MAE249 Micro-Sensors and Actuators**

**Electrical Engineering:**

[**http://www.editor.uci.edu/catalogue/engr/engr.9.htm**](http://www.editor.uci.edu/catalogue/engr/engr.9.htm)

**EECS116 Introduction to Data Management**

**EECS141A,B Communication Systems**

**EECS148 Introduction to Computer Networks**

**EECS160A Introduction to Control Systems**

**EECS160LA Control Systems I Laboratory**

**EECS160B Sampled-Data and Digital Control Systems**

**EECS163 Power Systems**

**EECS163L Power Systems Laboratory**

**EECS166A Industrial and Power Electronics**

**EECS166B Advanced Topics in Industrial and Power Electronics**

**EECS179 Microelectromechanical Systems (MEMS)**

**EECS241A Digital Communications**

**EECS244 Wireless Communications**

**EECS248A Internet**

**EECS267A,B Industrial and Power Electronics**

**EECS279 Micro-Sensors and Actuators**

**Computer Science:**

[**http://www.editor.uci.edu/catalogue/ics/ics.3.htm#courses**](http://www.editor.uci.edu/catalogue/ics/ics.3.htm#courses)

**122A Introduction to Data Management**

**122B Project in Databases and Web Applications**

**125 Next Generation Search Systems**

**132 Computer Networks**

**134 Computer and Network Security**

**137 Internet Applications Engineering**

**167 Introduction to Applied Cryptography**

**168 Network Optimization**

**201 Foundations of Cryptographic Protocols**

**202 Applied Cryptography**

**203 Network and Distributed Systems Security**

**221 Information Retrieval, Filtering, and Classification**

**222 Principles of Data Management**

**223 Transaction Processing and Distributed Data Management**

**224 Advanced Topics in Data Management**

**235 Internet Technology**

**236 Wireless and Mobile Networking**

**Others:**

[**http://www.editor.uci.edu/catalogue/engr/engr.7.htm**](http://www.editor.uci.edu/catalogue/engr/engr.7.htm)

**CEE110 Methods III: Modeling, Economics, and Management**