

ENERGY EFFICIENCY RELATED COURSES

Offered at UC Davis

The Energy Efficiency Center at UC Davis has a unique mission--to accelerate the development and commercialization of energy-efficient technologies into the market, and to educate future generations of energy efficiency leaders. To meet this mission, UC Davis offers three core graduate level courses exclusively dedicated towards exploring all aspects of energy efficiency (including theory, policy, technology, economics and practice). In addition, several courses are offered in various departments throughout the UC Davis main campus which have a portion of each course dedicated to some aspect of energy efficiency.

To aid our students in identifying which courses may be of particular interest to them, the EEC has developed this comprehensive list of courses. Those courses listed with an * have a particular emphasis on energy efficiency and are, therefore, strongly recommended as additional courses (electives) in a given program for those students interested in pursuing a career in the energy or energy efficiency industry. This list includes both undergraduate upper division as well as graduate level courses and is a "living document," meaning that it is continually being updated. Please alert Gwynn Benner (gwbenner@ucdavis.edu) at the Energy Efficiency Center if you feel a course should be added or removed.

Note: The courses listed below are listed only once even though many are cross-listed in other departments. Also, be aware that many courses have prerequisites, so check with the course instructor before enrolling in the course.

Energy Efficiency Courses

<i>Title</i>	<i>Number</i>	<i>Instructor(s)</i>	<i>Quarter taught</i>
*Energy Efficiency: The Other Side of the Meter	TTP 289	Alan Meier	Fall
*The Economics of Energy Efficiency and Climate Change	TTP 289	Alan Meier	Winter
*Innovations in Energy Efficiency	TTP 289	Alan Meier	Spring

Design Courses

<i>Title</i>	<i>Number</i>	<i>Instructor(s)</i>	<i>Quarter taught</i>
*Lighting Fundamentals	DES 136A	Michael Siminovitch	Fall
*Lighting Design	DES 136B	Michael Siminovitch	
Introduction to Sustainable Design	DES191B	Ann Savageau	
Studio Practice in Sustainable Design	DES 191B-009	Ann Savageau	
*Daylight Design	DES 198	Konstantinos Papamichael	

Systems, Policy, and Sustainability Courses

Biological Systems Engineering (EBS)			
Energy Systems	EBS 216	Bryan Jenkins	Winter
Analysis of Processing Operations: Drying and Evaporation	EBS 233	Staff	Alternate Years Winter
Engineering: Civil and Environmental (ECI)			
Urban Systems & Sustainability	ECI 123	Alissa Kendall with Deb Neimeier & Frank Loge as alternates	Fall
Green Engineering Design & Sustainability	ECI 143	Frank Loge	Fall
Ground Water System Design	ECI 144	Timothy Ginn	Fall
Air Pollution Control System Design	ECI 150	Christopher Cappa	Winter
Transportation System Design	ECI 162	Deb Neimeier	Spring
Transportation Policy	ECI 165	Dan Sperling	Fall
Transportation Systems Operations	ECI 161	Zhang	Fall
Civil Infrastructure System Optimization & Identification	ECI 250	Yueyue Fan	Spring
Transportation Planning in Developing Countries	ECI 258	Dan Sperling	Spring
Life Cycle Modeling for Sustainable Engineering	ECI 289	Alissa Kendall	Spring
Engineering: Mechanical (EME)			
Modern Power Plants	EME 162	Hoffman	Winter
Internal Combustion Engines & Future Alternatives	EME 163	Harry Dwyer	Spring
Environmental Science & Policy (ESP)			
Energy & Environmental Aspects of Transportation	ESP 163	Dan Sperling	Fall
Energy Policy	ESP 167	Joan Ogden	Fall
Environmental Planning, Land Use & Growth Controls	ESP 171	Susan Handy	Spring
Sustainable Transportation Technology & Policy	ESP 252	Dan Sperling	Spring
Landscape Architecture (LDA)			
Theory & Philosophy of the Designed Environment	LDA 201	Mark Francis	Spring
Engineering: Mechanical & Aeronautical (MAE)			
Advanced Energy Systems	MAE 218	Paul Erickson	Fall
Transportation, Technology & Policy (TTP)			
Introduction to Transportation Technology	TTP 210	Nicholas Lutsey	Winter
Energy Journal Review	TTP 289	Joan Ogden	Fall, Winter, Spring
*D-Lab I: Overview of Energy and Development	TTP 289	Kurt Kornbluth	Winter