

# Sustainable Design

Sustainable Design implies making decisions at various scales of the built environment (buildings, communities, land use patterns, urban support systems) in ways that support environmental quality, social equity, and economic vitality. The undergraduate minor in Sustainable Design is jointly offered by the Department of Architecture and the Department of Landscape Architecture and Environmental Planning, but also includes interdisciplinary courses across campus. The minor is open to all majors at UC Berkeley.

There is no major program; students interested in pursuing this course of study at the major level should consider the BA in Architecture program (<http://guide.berkeley.edu/archive/2015-16/undergraduate/degree-programs/architecture>) or the BA in Landscape Architecture (<http://guide.berkeley.edu/archive/2015-16/undergraduate/degree-programs/landscape-architecture>) program.

## Declaring the Minor

For your minor to be added to your transcript, you must file the CED Minor Completion form ([http://www.ced.berkeley.edu/downloads/forms/academic/ced\\_minor-completion.pdf](http://www.ced.berkeley.edu/downloads/forms/academic/ced_minor-completion.pdf)) with the Office of Undergraduate Advising in 250 Wurster Hall during the semester in which you complete your last class for the minor.

## Other Minors Offered by the Department of Architecture

For information regarding other minors offered by the Department of Architecture, please see the applicable section in this Guide: Architecture (<http://guide.berkeley.edu/archive/2015-16/undergraduate/degree-programs/architecture>)

Environmental Design and Urbanism in Developing Countries (<http://guide.berkeley.edu/archive/2015-16/undergraduate/degree-programs/environmental-design-urbanism-developing-countries>)

History of the Built Environment (<http://guide.berkeley.edu/archive/2015-16/undergraduate/degree-programs/history-built-environment>)

Social and Cultural Factors in Design (<http://guide.berkeley.edu/archive/2015-16/undergraduate/degree-programs/social-cultural-factors-environmental-design>)

## General Information

Websites: Department of Architecture (<http://ced.berkeley.edu/academics/architecture>) , Department of Landscape Architecture and Environmental Planning (<http://ced.berkeley.edu/academics/landscape-architecture-environmental-planning>)

Minor Program Faculty Adviser: Matthew Kondolf;  
[kondolf.berkeley@gmail.com](mailto:kondolf.berkeley@gmail.com); 300 Wurster Hall

Minor Program Faculty Adviser: Gail Brager (on leave 2015-16);  
[gbrager@berkeley.edu](mailto:gbrager@berkeley.edu) ; 386 Wurster Hall

Minor Program Staff Adviser: Rachel Klein, [rachelk@berkeley.edu](mailto:rachelk@berkeley.edu) ; 250 Wurster Hall

Department Chair, Architecture: Tom J. Buresh, [buresh@berkeley.edu](mailto:buresh@berkeley.edu) , 232A Wurster Hall, 510-642-4942

Department Chair, Landscape Architecture and Environmental Planning: Louise A. Mozingo; [Imozingo@berkeley.edu](mailto:Imozingo@berkeley.edu) ; 310 Wurster Hall; 510-643-9804

Associate Dean for Undergraduate Studies: Renee Chow;  
[rychow@berkeley.edu](mailto:rychow@berkeley.edu) ; 382D Wurster Hall  
Director, Office of Undergraduate Advising: Susan Hagstrom;  
[hagstrom@berkeley.edu](mailto:hagstrom@berkeley.edu) ; 250 Wurster Hall  
CED Career Services (<http://ced.berkeley.edu/ced/students/career>)

Students who have a strong interest in an area of study outside their major often decide to complete a minor program. These programs have set requirements and are noted officially on the transcript in the memoranda section, but they are not noted on diplomas.

## General Guidelines

1. All upper division courses used to fulfill minor requirements must be completed with a letter grade grade of C- or above.
2. Any course used in fulfillment of minor requirements may also be used to fulfill major and upper division CED non-major requirements.
3. Courses used to fulfill a breadth requirement may also be used to satisfy minor requirements.
4. Students may apply the non-CED version of a CED cross-listed course towards the minor.

## Requirements

### Lower Division

Select one course from the following:

AP Environmental Science, Passing Score of 3, 4, or 5

CIV ENG 11 Engineered Systems and Sustainability

CIV ENG 70 Engineering Geology

ENV DES 1 Introduction to Environmental Design

ENV DES 4A Design and Activism

ENV DES 4B Global Cities

ENV DES 4B Global Cities

ENV DES 4C Future Ecologies: Urban Design, Climate Adaptation, and Thermodynamics

ENV SCI 10 Introduction to Environmental Sciences

ESPM 2 The Biosphere

ESPM C10 Environmental Issues

GEOG 1 Global Environmental Change

LD ARCH 12 Environmental Science for Sustainable Development

### Upper Division (Five Courses)

Select five courses from the following; a minimum of two courses must be selected from CED courses and a minimum of two courses selected from non-CED courses

#### CED Courses

ARCH 105 Deep Green Design

ARCH 140 Energy and Environment

ARCH 149 Special Topics in Energy and Environment <sup>1</sup>

ARCH 169 Special Topics in Construction Materials <sup>1</sup>

ARCH 240 Advanced Study of Energy and Environment

ARCH 241 Research Methods in Building Sciences

ARCH 242 Sustainability Colloquium <sup>2</sup>

ARCH 243 Natural Cooling: Sustainable Design for a Warming Planet

ARCH 244	The Secret Life of Buildings
ARCH 245	Daylighting
ARCH 249	Special Topics in the Physical Environment in Buildings <sup>1</sup>
CY PLAN 114	Introduction to Urban and Regional Transportation
CY PLAN 115	Urbanization in Developing Countries
CY PLAN 119	Planning for Sustainability
CY PLAN 140	Urban Design: City-Building and Place-Making
CY PLAN 254	Sustainable Communities
CY PLAN C256	Healthy Cities
ENV DES 198	Directed Group Study (Building Sustainability section and Leadership in Sustainable Design section) <sup>2</sup>
LD ARCH 103	Energy, Fantasy, and Form
LD ARCH 110	Ecological Analysis
LD ARCH 111	Plants in Design
LD ARCH 122	Hydrology for Planners, Environmental Science for Sustainable Development
LD ARCH 130	Sustainable Landscapes and Cities
LD ARCH 138A	The Metropolitan Landscape
LD ARCH C188	Geographic Information Systems
LD ARCH 225	Urban Forest Planning and Management
<b>Non-CED Courses</b>	
ANTHRO 137	Energy, Culture and Social Organization
CIV ENG 103	Introduction to Hydrology
CIV ENG 107	Climate Change Mitigation
CIV ENG 113N	Course Not Available
CIV ENG 292A	Technologies for Sustainable Societies <sup>3</sup>
ENE,RES 101	Ecology and Society
ENE,RES 102	Quantitative Aspects of Global Environmental Problems
ENE,RES 175	Water and Development
ENE,RES C10	Energy and Society
ENE,RES 190	Seminar in Energy and Resources Issues ("Behavior and Sustainability" or "California Water and Society")
ENVECON C1	Environmental Economics
ENVECON C10	Natural Resource Economics
ENVECON 162	Economics of Water Resources
ENVECON C17	The Economics of Climate Change
ENV SCI 125	Environments of the San Francisco Bay Area
ESPM 117	Urban Garden Ecosystems
ESPM 151	Society, Environment, and Culture
ESPM 155	Course Not Available
ESPM 161	Environmental Philosophy and Ethics
ESPM 163AC	Environmental Justice: Race, Class, Equity, and the Environment
ESPM C167	Environmental Health and Development
ESPM 168	Political Ecology
ESPM 102D	Climate and Energy Policy (Behavior and Sustainability )
GEOG 130	Food and the Environment

#### PUB POL 182 Environment and Technology from the Policy and Business Perspective

- <sup>1</sup> Special topics courses will be evaluated each semester by student request. Please ask the relevant staff adviser if a course has been reviewed and/or approved. ARCH 149, ARCH 169, and ARCH 249 should be minimum 2 units.
- <sup>2</sup> The ARCH 242 colloquium and ENV DES 198 may only count as a third CED course, and may be taken *Pass/No Pass* for either 1 or 2 units.
- <sup>3</sup> CIV ENG 292A may only count as a third non-CED course.

## Courses

No courses found for AGR CHM