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/2016-17/undergraduate/degree-programs/architecture) or the BA in Landscape Architecture (http://guide.berkeley.edu/archive/2016-17/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) 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/2016-17/undergraduate/degree-programs/architecture)
Environmental Design and Urbanism in Developing Countries (http://guide.berkeley.edu/archive/2016-17/undergraduate/degree-programs/environmental-design-urbanism-developing-countries)
History of the Built Environment (http://guide.berkeley.edu/archive/2016-17/undergraduate/degree-programs/history-built-environment)
Social and Cultural Factors in Design (http://guide.berkeley.edu/archive/2016-17/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: Mathias Kondolf; kondolf.berkeley@gmail.com; (kondolf.berkeley@gmail.com) 300 Wurster Hall
Minor Program Staff Adviser: Nancy Trinh, nantrinh@berkeley.edu (worrell@berkeley.edu) ; 250 Wurster Hall
Department Chair, Architecture: Tom J. Buresh, buresh@berkeley.edu , 232A Wurster Hall, 510-642-4942
Department Chair, Landscape Architecture and Environmental Planning: Louise A. Mozingo; lmozingo@berkeley.edu ; 310 Wurster Hall; 510-643-9804
Associate Dean for Undergraduate Studies: Renee Chow; rychow@berkeley.edu ; 382D Wurster Hall

Director, Office of Undergraduate Advising: Susan Hagstrom; 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 courses used to fulfill minor requirements must be completed with a letter grade of C- or above.
2. Students must earn a 2.0 GPA in the upper division requirements for the minor.
3. Any course used in fulfillment of minor requirements may also be used to fulfill major and upper division CED non-major requirements.
4. Courses used to fulfill a breadth requirement may also be used to satisfy minor requirements.
5. Students may apply the non-CED version of a CED cross-listed course towards the minor.
6. Students may use up to two courses taken abroad to fulfill upper division minor requirements, with faculty approval of the individual courses.

Requirements

Lower Division (a letter grade of C- or higher is required to declare the minor)

Select one course from the following:	
AP Environmental Science, Passing Score of 3, 4, or 5	
ENV DES 1	Introduction to Environmental Design
LD ARCH 1	Drawing a Green Future: Fundamentals of Visual Representation and Creativity
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 [1]
ARCH 169	Special Topics in Construction Materials [1]
ARCH 240	Advanced Study of Energy and Environment
ARCH 241	Research Methods in Building Sciences
ARCH 242	Sustainability Colloquium [2]
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 [1]
CY PLAN 114	Introduction to Urban and Regional Transportation
CY PLAN 115	Urbanization in Developing Countries
CY PLAN 140	Urban Design: City-Building and Place-Making
CY PLAN 254	Sustainable Communities [4]
CY PLAN C256	Healthy Cities [4]

ENV DES 102	Critical Debates in Sustainable Urbanism
ENV DES 198	Directed Group Study (Building Sustainabilty section and Leadership in Sustainable Design section) [2]
LD ARCH 103	Energy, Fantasy, and Form
LD ARCH 110	Ecological Analysis
LD ARCH 111	Plants in Design
LD ARCH 122	Hydrology for Planners
LD ARCH 130	Sustainable Landscapes and Cities
LD ARCH 138AC	Course Not Available
LD ARCH C188	Geographic Information Systems
LD ARCH 225	Course Not Available
Non-CED Courses	
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 [3]
ENE,RES C100	Energy and Society
ENE,RES 101	Ecology and Society
ENE,RES 102	Quantitative Aspects of Global Environmental Problems
ENE,RES 175	Water and Development
ENE,RES 190	Seminar in Energy and Resources Issues ("Behavior and Sustainability" or "California Water and Society")
ENVECON 100	Microeconomic Theory with Application to Natural Resources
ENVECON C1	Environmental Economics
ENVECON C102	Natural Resource Economics
ENVECON 162	Economics of Water Resources
ENVECON C175	The Economics of Climate Change
ENV SCI 125	Environments of the San Francisco Bay Area
ESPM 102C	Resource Management
ESPM 102D	Climate and Energy Policy (Behavior and Sustainability)
ESPM 117	Urban Garden Ecosystems
ESPM 137	Landscape Ecology
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 166	Natural Resource Policy and Indigenous Peoples
ESPM C167	Environmental Health and Development
ESPM 168	Political Ecology
ESPM 169	International Environmental Politics
ESPM C193A	Environmental Education
GEOG 130	Food and the Environment
GEOG 138	Global Environmental Politics
IND ENG 185	Challenge Lab (Smart Cities in India)
INTEGBI 152	Environmental Toxicology

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

[1]   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.

[2]   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.

[3]   CIV ENG 292A may only count as a third non-CED course.

[4]   Only with instructor approval for students in their senior year.

Courses

No courses found for AGR CHM