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.

Students interested in pursuing this course of study at the major level should consider the Sustainable Environmental Design (http://guide.berkeley.edu/undergraduate/degree-programs/sustainable-environmental-design/) program.

Declaring the Minor

A letter grade of C- or higher in ENV DES 1, LD ARCH 1, or LD ARCH 12 (or a 3 or higher in AP Env Sci) is required to declare the minor. To declare, students must submit the CED Minor Declaration Form (https://ced.berkeley.edu/advising/undergraduate-advising/ undergraduate-students/major-minor-requirements/), available on the CED website. Once this request has been approved, you will see the minor added to your Cal Central student profile. It is your responsibility to track your progress towards minor completion using the Academic Progress Report and CED Advising Services.

DEADLINE TO SUBMIT FORM: One semester prior to a students final semester.

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/), Sustainable Environmental Design Major (https://ced.berkeley.edu/academics/bachelor-of-arts-in-sustainable-environmental-design/), Sustainable Design Minor (https://ced.berkeley.edu/academics/additional-programs/sustainable-design/)

Students who have a strong interest in an area of study outside their major often decide to complete a minor program.

General Guidelines

1. All minors must be declared no later than one semester before a student’s Expected Graduation Term (EGT).
2. A letter grade of C- or higher in ENV DES 1, LD ARCH 1, or LD ARCH 12 (or a 3 or higher in AP Env Sci) is required to declare the minor. To declare, students must submit the CED Minor Declaration Form (https://ced.berkeley.edu/students/undergraduate-advising/forms-documents/), available on the CED website.
   a. DEADLINE TO SUBMIT FORM: One semester prior to a students final semester.
3. Each course used to fulfill minor requirements must be completed with a letter grade of C- or above.
4. Students must earn a 2.0 GPA in the upper division requirements for the minor.
5. Any course used in fulfillment of minor requirements may also be used to fulfill major and upper division CED non-major requirements.
6. Courses used to fulfill a breadth requirement may also be used to satisfy minor requirements.
7. Students may apply the non-CED version of a CED cross-listed course towards the minor.
8. 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 [3]
- LD ARCH 12 Environmental Science for Sustainable Development [4]

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 124A Introduction to Digital Design Methods [2]
- ARCH 140 Energy and Environment [4]
- ARCH 149 Special Topics in Energy and Environment [2-4]¹
- ARCH 169 Special Topics in Construction Materials [2-4]¹
- ARCH 241 Research Methods in Building Sciences [3]
- ARCH 242 Sustainability Colloquium [2]²
- or ARCH 142 Sustainability Colloquium
- ARCH 249 Special Topics in the Physical Environment in Buildings [2-4]¹
- CY PLAN 114 Introduction to Urban and Regional Transportation [3]
- CY PLAN 115 Urbanization in Developing Countries [4]
- CY PLAN 119 Planning for Sustainability [4]
- CY PLAN 140 Urban Design: City-Building and Place-Making [3]
- CY PLAN 254 Sustainable Communities [3]⁴
- CY PLAN C256 Healthy Cities [3]⁴
- ENV DES 102 Climate Change and City Planning: Adaptation and Resilience [3]
- LD ARCH 103 Energy, Fantasy, and Form [5]
- LD ARCH 111 Plants in Design [3]
- LD ARCH 122 Hydrology for Planners [4]
- LD ARCH 130 Sustainable Landscapes and Cities [4]
- LD ARCH 140 Social and Psychological Factors in Open Space Design [3]
- LD ARCH C188 Geographic Information Science [4]
- LD ARCH 191 Course Not Available (Sustainable Cities of Northern Europe, UC Davis Study Abroad)

Non-CED Courses

- LD ARCH 103 Energy, Fantasy, and Form [5]
- CY PLAN 114 Introduction to Urban and Regional Transportation [3]
- CY PLAN 115 Urbanization in Developing Countries [4]
- CY PLAN 119 Planning for Sustainability [4]
- CY PLAN 140 Urban Design: City-Building and Place-Making [3]
- CY PLAN 254 Sustainable Communities [3]⁴
- CY PLAN C256 Healthy Cities [3]⁴
- ENV DES 102 Climate Change and City Planning: Adaptation and Resilience [3]
- LD ARCH 103 Energy, Fantasy, and Form [5]
- LD ARCH 111 Plants in Design [3]
- LD ARCH 122 Hydrology for Planners [4]
- LD ARCH 130 Sustainable Landscapes and Cities [4]
- LD ARCH 140 Social and Psychological Factors in Open Space Design [3]
- LD ARCH C188 Geographic Information Science [4]
- LD ARCH 191 Course Not Available (Sustainable Cities of Northern Europe, UC Davis Study Abroad)
ANTHRO 137  Energy, Culture and Social Organization [4]
CIV ENG 103  Course Not Available [3]
CIV ENG C103  Terrestrial Hydrology [4] (cross-listed w/ ESPM C130 and GEOG C136)
CIV ENG 107  Climate Change Mitigation [3]
CIV ENG 108  Climate Change Adaptation [3]
CIV ENG 113  Ecological Engineering for Water Quality Improvement [3]
CIV ENG 292A  Technologies for Sustainable Societies [1] [3]
ENE,RES C100  Energy and Society [4] (cross-listed w/ PUB POL C184)
ENE,RES W10  Energy and Society [4]
ENEVECON 100  Intermediate Microeconomics with Applications to Sustainability [4]
ENEVECON C101  Environmental Economics [4]
ENEVECON 162  Economics of Water Resources [3]
ENEVECON C1  Climate Change Economics [4]
ENEVECON C162  Forest Ecosystem Management [4]
ESPM 102  Climate and Energy Policy [4] (Behavior and Sustainability)
ESPM 102C  Resource Management [4]
ESPM 102D  Urban Garden Ecosystems [4]
ESPM 114  Fire, Insects, and Diseases in Forest Ecosystems [3]
ESPM 137  Landscape Ecology [3]
ESPM 151  Society, Environment, and Culture [4]
ESPM 161  Environmental Philosophy and Ethics [4]
ESPM 162  Bioethics and Society [4]
ESPM 163AC  Environmental Justice: Race, Class, Equity, and the Environment [4]
ESPM C167  Environmental Health and Development [4]
ESPM 168  Political Ecology [4]
ESPM 169  International Environmental Politics [4]
ESPM 177A  Sustainable Water and Food Security [4]
GEOG 130  Food and the Environment [4]
GEOG 138  Global Environmental Politics [4]
GEOG C160  The American Landscape: Place, Power and Culture [4]
GEOG 185  Earth System Remote Sensing [3]
GEOG 186  Web Cartography [5]
IAS/ENEVECON C175  The Economics of Climate Change [4]

PB HLTH C160  Environmental Health and Development [4]

ESPM173(UC Davis) Sustainable Cities of Northern Europe, UC Davis Study Abroad

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 must be minimum 2 units.
2 The ARCH 142/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

Expand all course descriptions [+]Collapse all course descriptions [-] No courses found for AGR CHM