

Environmental Design and Urbanism in Developing Countries

Minor

The undergraduate minor in Environmental Design and Urbanism in Developing Countries serves students majoring in humanities, social sciences, and a variety of professional fields. The minor is intended to expose students to basic problems, cultural contexts, policy alternatives, and design solutions in the Third World.

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/2014-15/undergraduate/degree-programs/architecture>).

Declaring the Minor

For the minor to be added to the student's transcript, they 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 they complete their last class for the minor.

Other Major and Minors Offered by the Department of Architecture

Architecture (<http://guide.berkeley.edu/archive/2014-15/undergraduate/degree-programs/architecture>) (Major and Minor)

History of the Built Environment (<http://guide.berkeley.edu/archive/2014-15/undergraduate/degree-programs/history-built-environment>) (Minor only)

Social and Cultural Factors in Design (<http://guide.berkeley.edu/archive/2014-15/undergraduate/degree-programs/social-cultural-factors-environmental-design>) (Minor only)

Sustainable Design (<http://guide.berkeley.edu/archive/2014-15/undergraduate/degree-programs/sustainable-design>) (Minor only)

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 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

Prerequisite

Select one of the following:

ENV DES 1	Introduction to Environmental Design
ARCH 170A	An Historical Survey of Architecture and Urbanism
ARCH 170B	An Historical Survey of Architecture and Urbanism
ANTHRO 3	Introduction to Social and Cultural Anthropology
ECON 1	Introduction to Economics
SOCIOL 1	Introduction to Sociology

Upper-division Requirements (Five courses) ¹

Select three courses from the following:

CY PLAN/ ARCH 111	Introduction to Housing: An International Survey ^{2, 3}
CY PLAN/ GPP 115	Urbanization in Developing Countries ^{2, 3}
ENV DES 100	The City: Theories and Methods in Urban Studies ²

ARCH 179	Special Topics in the History of Architecture (when topic relates to developing countries only)
ARCH 218/ CY PLAN 231	Housing, Urbanization, and Urbanism: Design, Planning, and Policy Issues in Developing Countries (Instructor permission required)

Select two courses from the following: ⁴

ANTHRO 141	Comparative Society
ANTHRO courses numbered between ANTHRO 170-ANTHRO 188	
DEV STD C100	History of Development and Underdevelopment
ESPM 155	Sociology and Political Ecology of Agro-Food Systems
GEOG 165	Course Not Available
HISTORY 109C	The Middle East From the 18th Century to the Present
HISTORY 111B	Topics in the History of Southeast Asia: Modern Southeast Asia
HISTORY 111C	Topics in the History of Southeast Asia: Political and Cultural History of Vietnam
HISTORY 112B	Africa: Modern South Africa, 1652-Present
HISTORY 113A	Traditional Korean History
HISTORY 113B	Modern Korean History
HISTORY 114A	India: Medieval and Early Modern India to the Coming of the British
HISTORY 114B	India: Modern South Asia
HISTORY 116E	China: Two Golden Ages: China During the Tang and Song Dynasties
HISTORY 116C	China: Modern China
HISTORY 140E	Mexico: Modern Mexico
HISTORY 141B	Social History of Latin America: Social History of Modern Latin America
HISTORY 143	Brazil
POL SCI 139B	Development Politics
POL SCI 141C	Politics and Government in Eastern Europe
POL SCI 142B	Course Not Available
POL SCI 143A	Northeast Asian Politics

POL SCI 143B Japanese Politics

POL SCI 144B Politics of Divided Korea

POL SCI 145B South Asian Politics

POL SCI 146B Course Not Available

POL SCI 148A Latin American Politics

- 1 Graduate courses in subjects related to the upper-division courses listed may be used as substitutes if approved by the faculty adviser.
- 2 Urban Studies students may not select these courses for the minor. Students may take other courses offered by visiting faculty members on subjects related to developing countries with faculty minor approval. Please contact the staff adviser for more information.
- 3 Other CY PLAN or ARCH courses offered by visiting faculty members related to developing countries may be taken with adviser approval, when CY PLAN 111 or CY PLAN 115 are not offered. Architecture majors may use ARCH 139 or ARCH 239 to fulfill this requirement.
- 4 All International and Area Studies (IAS) courses including those in Middle Eastern Studies (M E STU), Latin American Studies (LATAMST), Peace and Conflict Studies (PACS), Development Studies (DEV STD), and Political Economy of Industrial Societies (POLECON) may be used as substitutes provided prior approval of the faculty minor adviser is granted. Please contact the staff adviser for more information.

Environmental Design and Urbanism in Developing Countries

ENV DES 1 Introduction to Environmental Design 3 Units

This course will teach anyone how to start to be a designer, not just of drawings and objects, but also buildings, landscapes, and urban spaces. And not just in isolation, but in the complex web of ecological and man-made systems which makes up our shifting environment. You will take from the course first-hand experience of drawing, measuring, and design — which form the basis of the professions of architecture, landscape architecture, and urban planning— and which culminate in a final design project in the course. The course is open to all undergraduate students.

Rules & Requirements

Credit Restrictions: Student will receive no credit for Environmental Design 1 after taking Environmental Design 4.

Repeat rules: Course may be repeated for credit. Course may be repeated for credit when topic changes.

Hours & Format

Fall and/or spring: 15 weeks - 3 hours of lecture and 2 hours of discussion per week

Summer: 8 weeks - 6 hours of lecture and 4 hours of discussion per week

Additional Details

Subject/Course Level: Environmental Design/Undergraduate

Grading/Final exam status: Letter grade. Final exam required.

Instructors: de Monchaux, Jewell

ENV DES 2 Introduction to Environmental Design Summer Lectures 1 Unit

This course accompanies the summer studio and media classes in the architecture and landscape architecture post-baccalaureate programs, (IN)Arch and (IN)Land, of the College of Environmental Design. This series of eight lectures by faculty in the College of Environmental Design at Berkeley presents a range of approaches, theories, and practices in the design fields. Lectures will include topics in landscape architecture, architectural practice, building construction and systems, global cities, urban ecology, building sustainability, social and political aspects of architecture, and a panel discussion by professionals who are previous students of the College.

Hours & Format

Summer:

6 weeks - 3 hours of lecture per week

8 weeks - 2 hours of lecture per week

Additional Details

Subject/Course Level: Environmental Design/Undergraduate

Grading/Final exam status: Offered for pass/not pass grade only. Final exam not required.

ENV DES R3B Reading and Composition in Energy, Society, and Environmental Design 4 Units

This course will expose students to key literature that examines, primarily, the relationship between sustainability and environmental design disciplines. Our goal will be not only to investigate the central ideas that inform the design of sustainable landscapes, cities, and buildings, but also to understand how competing arguments are presented in writing. Satisfies the second half of the Reading and Composition Requirement.

Rules & Requirements

Prerequisites: UC Entry Writing Requirement or UC Analytical Writing Placement Exam. R1A or equivalent course is prerequisite to R1B

Requirements this course satisfies: Satisfies the second half of the Reading and Composition requirement

Repeat rules: Course may be repeated for credit when topic changes.

Hours & Format

Fall and/or spring: 15 weeks - 3 hours of lecture per week

Additional Details

Subject/Course Level: Environmental Design/Undergraduate

Grading/Final exam status: Letter grade. Final exam not required.

ENV DES 4A Design and Activism 3 Units

This course explores the relationships between design and activism, raising critical questions about what design is, and how designers serve as guardians of culture and as agents of change. Students will participate in "spontaneous acts of design activism" that address contemporary issues through the making of forms and space to reinvent relationships between people and their environments.

Hours & Format

Fall and/or spring: 15 weeks - 3 hours of lecture per week

Additional Details

Subject/Course Level: Environmental Design/Undergraduate

Grading/Final exam status: Letter grade. Final exam required.

ENV DES 4B Global Cities 3 Units

This study of cities is more important than ever; for the first time in history more people live in urban than rural areas, and cities will account for all of the world's population growth for at least the next half-century. We will explore the challenges facing global cities in the 21st Century and expose students to some of the key texts, theories, and methods of inquiry that shape the built environment, from the human scale of home and community to the regional scale of the megacity.

Hours & Format

Fall and/or spring: 15 weeks - 3 hours of lecture per week

Additional Details

Subject/Course Level: Environmental Design/Undergraduate

Grading/Final exam status: Letter grade. Final exam required.

ENV DES 4C Future Ecologies: Urban Design, Climate Adaptation, and Thermodynamics 3 Units

This course is intended to provide students with an overview of current thinking about cities and their components (buildings, parks, streets) as ecological and cultural systems. It will provide an introduction to methods for investigating the dynamics of flows and relationships in the built environment and students will gain experience constructing their own narratives as ways of asking and answering questions about human habitat that could shape the future.

Hours & Format

Fall and/or spring: 15 weeks - 3 hours of lecture per week

Additional Details

Subject/Course Level: Environmental Design/Undergraduate

Grading/Final exam status: Letter grade. Final exam required.

ENV DES 8 Summer DIScovery Program: Design & Innovation for Sustainable Cities (DISC) 5 Units

This course is about cities, their environmental challenges, and the potentials of design innovation as a catalyst for change. The course is organized in four components: global cities and global challenges, design innovators, technology and media workshop on environmental visualization, and product design and fabrication studio.

Objectives & Outcomes

Course Objectives: • Construct a project that bridges from conception to design and production.

- Design a product, artifact or intervention that affects environmental awareness or change.
- Identify the major debates around global urbanization.
- Understand the importance of user experience.
- Understand the issues of spatial scales and levels of intervention.
- Understand the potentials and dangers of design and technology interventions.

Hours & Format

Summer: 6 weeks - 10 hours of lecture, 15 hours of laboratory, and 15 hours of studio per week

Additional Details

Subject/Course Level: Environmental Design/Undergraduate

Grading/Final exam status: Offered for pass/not pass grade only. Alternative to final exam.

ENV DES 9 Introduction to Environmental Design: embARC 1 Unit

The embARC program allows high school students to explore the fields of sustainable environmental design and experience the culture of the design studio. Students study architecture, urban design, and city planning through a series of lectures, field trips, and studios. Introductory instruction in freehand sketching, drafting, model building and digital representation teaches students how to think with and communicate two- and three-dimensional design ideas.

Hours & Format

Summer: 6 weeks - 5 hours of lecture and 2.5 hours of studio per week

Additional Details

Subject/Course Level: Environmental Design/Undergraduate

Grading/Final exam status: Letter grade. Final exam required.

ENV DES 10 The History of Thought in Environmental Design 3 Units
With emphasis on key events of the 20th and now 21st century, this course introduces the big ideas and individuals that have shaped architecture, urban planning, and landscape architecture.

Rules & Requirements

Prerequisites: None. Open to all undergraduates in the College of Environmental Design and other colleges and majors

Hours & Format

Fall and/or spring: 15 weeks - 3 hours of lecture per week

Summer: 8 weeks - 6 hours of lecture and 2 hours of discussion per week

Additional Details

Subject/Course Level: Environmental Design/Undergraduate

Grading/Final exam status: Letter grade. Final exam required.

ENV DES 98 Directed Group Study 1 - 4 Units

This is a special topics course intended to fulfill the individual interests of students, and provide a vehicle for professors to instruct students based on new and innovative developments in the field of environmental design.

Rules & Requirements

Prerequisites: Restricted to 1st and 2nd year students

Credit Restrictions: Enrollment is restricted; see the Introduction to Courses and Curricula section of this catalog.

Repeat rules: Course may be repeated for credit. Course may be repeated for credit when topic changes.

Hours & Format

Fall and/or spring: 15 weeks - 1-4 hours of directed group study per week

Summer:

6 weeks - 2.5-10 hours of directed group study per week

8 weeks - 2-8 hours of directed group study per week

Additional Details

Subject/Course Level: Environmental Design/Undergraduate

Grading/Final exam status: Offered for pass/not pass grade only. Final exam not required.

ENV DES 98BC Berkeley Connect 1 Unit

Berkeley Connect is a mentoring program, offered through various academic departments, that helps students build intellectual community. Over the course of a semester, enrolled students participate in regular small-group discussions facilitated by a graduate student mentor (following a faculty-directed curriculum), meet with their graduate student mentor for one-on-one academic advising, attend lectures and panel discussions featuring department faculty and alumni, and go on field trips to campus resources. Students are not required to be declared majors in order to participate.

Rules & Requirements

Repeat rules: Course may be repeated for credit when topic changes.

Hours & Format

Fall and/or spring: 15 weeks - 1 hour of seminar per week

Additional Details

Subject/Course Level: Environmental Design/Undergraduate

Grading/Final exam status: Offered for pass/not pass grade only. Final exam not required.

ENV DES 100 The City: Theories and Methods in Urban Studies 4 Units

This course is concerned with the study of cities. Focusing on great cities around the world - from Chicago to Los Angeles, from Rio to Shanghai, from Vienna to Cairo it covers of historical and contemporary patterns of urbanization and urbanism. Through these case studies, it introduces the key ideas, debates, and research genres of the interdisciplinary field of urban studies. In other words, this is simultaneously a "great cities" and "great theories" course. Its purpose is to train students in critical analysis of the socio-spatial formations of their lived world.

Hours & Format

Fall and/or spring: 15 weeks - 3 hours of lecture and 1 hour of discussion per week

Summer: 8 weeks - 6 hours of lecture and 2 hours of discussion per week

Additional Details

Subject/Course Level: Environmental Design/Undergraduate

Grading/Final exam status: Letter grade. Final exam required.

Instructor: Roy

ENV DES 101A Writing about Environmental Design: Short Compositions 2 - 4 Units

An intensive workshop for students interested in writing about architecture, landscape, and the built environment. Recognizing that undergraduate students who take this course represent departments outside as well as within the College of Environmental Design, assignments are touchstones for students of different disciplines to bring their current academic interests into play when writing about environmental design. Weekly assignments include prose readings, generally essays related to life experience. Brief readings and discussions during each class, along with weekly writing assignments of 3-5 pages of prose will illustrate the skills involved in the craft of writing.

Rules & Requirements

Prerequisites: English 1B and consent of instructor

Repeat rules: Course may be repeated for credit. Course may be repeated for credit when topic changes.

Hours & Format

Fall and/or spring: 10 weeks - 3 hours of laboratory and .5 hours of tutorial per week

Additional Details

Subject/Course Level: Environmental Design/Undergraduate

Grading/Final exam status: Letter grade. Final exam not required.

Instructor: Lifchez

Formerly known as: 101

ENV DES 101B Writing about Environmental Design: One Longer Composition 2 - 4 Units

In 101B: The Notebook (one long composition in 14 weekly assignments) assigned readings (principally short stories) offer examples of writing which parallel the focus of the week's writing assignment. Prompts and assigned readings encourage the individual development of a "story" or "theme" that each student at the outset or in the process of writing, arrives at a personal narrative. Course approved for English department credit and UC Undergraduate Minor in Creative Writing.

Rules & Requirements

Prerequisites: English 1B and consent of instructor

Repeat rules: Course may be repeated once for credit. Course may be repeated for credit when topic changes.

Hours & Format

Fall and/or spring: 15 weeks - 3 hours of seminar per week

Additional Details

Subject/Course Level: Environmental Design/Undergraduate

Grading/Final exam status: Letter grade. Final exam not required.

Instructor: Lifchez

Formerly known as: 101

ENV DES 102 Critical Debates in Sustainable Urbanism 3 Units

The aim of the course is to provide students with knowledge and insight into the major issues and debates relating to sustainability. By the end of the course, students should have a critical understanding of the complexity and scale of the sustainability challenge, how different actors characterize and understand sustainability, the approaches that have been developed to implement these varying visions, and the institutional, political, and individual barriers to these visions

Hours & Format

Fall and/or spring: 15 weeks - 3 hours of lecture per week

Summer: 8 weeks - 6 hours of lecture per week

Additional Details

Subject/Course Level: Environmental Design/Undergraduate

Grading/Final exam status: Letter grade. Final exam required.

ENV DES 105 Deep Green Design 4 Units

Design problems from an ecological perspective. Design studies of relationships among ecosystem, energy, and resource flows, human social and cultural values, and technological variables as they interact to produce the built environment.

Rules & Requirements

Prerequisites: Consent of instructor and upper division standing.

Students are to have taken at least one design studio and one course on sustainable design prior to taking this course

Hours & Format

Fall and/or spring: 15 weeks - 4 hours of seminar per week

Additional Details

Subject/Course Level: Environmental Design/Undergraduate

Grading/Final exam status: Letter grade. Final exam required.

Instructor: Ubbelohde

ENV DES 106 Sustainable Environmental Design Workshop 5 Units

This course asks students to reflect back, reviewing the various disciplinary approaches introduced toward sustainability and to look forward by proposing interdisciplinary ways to affect the environment. Each year will be organized around a theme and project advanced by the faculty of the College. The workshop will require independent as well as collaborative research often in partnership with an external 'client' organization.

Rules & Requirements

Prerequisites: Environmental Design 102

Hours & Format

Fall and/or spring: 15 weeks - 4 hours of lecture and 4 hours of studio per week

Additional Details

Subject/Course Level: Environmental Design/Undergraduate

Grading/Final exam status: Letter grade. Final exam not required.

ENV DES C169A American Cultural Landscapes, 1600 to 1900 4 Units
Introduces ways of seeing and interpreting American histories and cultures, as revealed in everyday built surroundings-- houses, highways, farms, factories, stores, recreation areas, small towns, city districts, and regions. Encourages students to read landscapes as records of past and present social relations and to speculate for themselves about cultural meaning.

Hours & Format

Fall and/or spring: 15 weeks - 3 hours of lecture and 1 hour of discussion per week

Additional Details

Subject/Course Level: Environmental Design/Undergraduate

Grading/Final exam status: Letter grade. Final exam required.

Instructor: Groth

Also listed as: AMERSTD C112A/GEOG C160A

ENV DES C169B American Cultural Landscapes, 1900 to Present 4 Units
Introduces ways of seeing and interpreting American histories and cultures, as revealed in everyday built surroundings--homes, highways, farms, factories, stores, recreation areas, small towns, city districts, and regions. Encourages students to read landscapes as records of past and present social relations, and to speculate for themselves about cultural meaning.

Hours & Format

Fall and/or spring: 15 weeks - 3 hours of lecture and 1 hour of discussion per week

Additional Details

Subject/Course Level: Environmental Design/Undergraduate

Grading/Final exam status: Letter grade. Final exam required.

Instructor: Groth

Also listed as: AMERSTD C112B/GEOG C160B

ENV DES 170 The Social Art of Architecture 3 Units

What is the social art of architecture in America? What was it historically, where is it now, where is it going--and why should you care? In this course, we will explore contemporary and historic attempts to confront social needs through themes: Design by Professionals (Architects, City Planners, Urban Designers, Sociologists, Philosophers, Philanthropists), and Design by Laypeople (Squatters, Intentional Communities, Do It Yourself). The objective is to discharge the false dualism that has emerged in architecture between social concerns and creative design.

Rules & Requirements

Repeat rules: Course may be repeated by students working on thesis or dissertation. Course may be repeated for credit by students working on thesis or dissertation. Course may be repeated for credit when topic changes.

Hours & Format

Fall and/or spring: 15 weeks - 2 hours of seminar per week

Additional Details

Subject/Course Level: Environmental Design/Undergraduate

Grading/Final exam status: Letter grade. Final exam not required.

Instructor: Lifchez

ENV DES 193 Curricular Practical Training for International Students 0.0 Units

This is a zero-unit internship course for F-1, non-immigrant, international students participating in internships under the Curricular Practical Training program. Requires a paper exploring how the theoretical constructs learned in Environmental Design courses were applied during the internship.

Rules & Requirements

Prerequisites: International students only

Hours & Format

Summer: 8 weeks - 0 hours of internship per week

Additional Details

Subject/Course Level: Environmental Design/Undergraduate

Grading/Final exam status: Offered for pass/not pass grade only. Final exam not required.

ENV DES 195 Senior Thesis 4 Units

Directed study leading to preparation of a senior thesis.

Rules & Requirements

Prerequisites: Limited to students with approved individual majors in the College of Environmental Design

Repeat rules: Course may be repeated once for credit. Course may be repeated for a maximum of 8 units.

Hours & Format

Fall and/or spring: 15 weeks - 0 hours of independent study per week

Additional Details

Subject/Course Level: Environmental Design/Undergraduate

Grading/Final exam status: Letter grade. Final exam required.

ENV DES 195A Introduction to Methods and Thesis Preparation 3 Units
The Senior Thesis in Environmental Design is an advanced research and writing project that presents an original and thorough analysis of a topic of individual interest in architecture, landscape architecture, or urban studies. This class provides an introduction to various methodologies relevant for a senior thesis including qualitative, quantitative, and descriptive research approaches.

Hours & Format

Fall and/or spring: 15 weeks - 3 hours of seminar per week

Summer: 8 weeks - 6 hours of seminar per week

Additional Details

Subject/Course Level: Environmental Design/Undergraduate

Grading/Final exam status: Letter grade. Final exam not required.

ENV DES 195B Thesis Research and Writing 3 Units
Students taking this class will use it to complete the writing of their thesis under the supervision of a Senior Thesis Advisor. This class will operate as an independent study; faculty with more than one Senior Thesis student may choose to meet them in group sessions.

Rules & Requirements

Prerequisites: Environmental Design 195A

Hours & Format

Fall and/or spring: 15 weeks - 3 hours of independent study per week

Summer: 8 weeks - 6 hours of independent study per week

Additional Details

Subject/Course Level: Environmental Design/Undergraduate

Grading/Final exam status: Letter grade. Final exam not required.

ENV DES 198 Directed Group Study 1 - 4 Units

This is a special topics course intended to fulfill the individual interests of students, and provide a vehicle for professors to instruct students based on new and innovative developments in the field of environmental design.

Rules & Requirements

Prerequisites: Restricted to 3rd and 4th year students

Credit Restrictions: Enrollment is restricted; see the Introduction to Courses and Curricula section of this catalog.

Repeat rules: Course may be repeated for credit. Course may be repeated for credit when topic changes.

Hours & Format

Fall and/or spring: 15 weeks - 1-4 hours of directed group study per week

Summer:

6 weeks - 2.5-10 hours of directed group study per week

8 weeks - 2-8 hours of directed group study per week

Additional Details

Subject/Course Level: Environmental Design/Undergraduate

Grading/Final exam status: Offered for pass/not pass grade only. Final exam not required.

ENV DES 198BC Berkeley Connect 1 Unit

Berkeley Connect is a mentoring program, offered through various academic departments, that helps students build intellectual community. Over the course of a semester, enrolled students participate in regular small-group discussions facilitated by a graduate student mentor (following a faculty-directed curriculum), meet with their graduate student mentor for one-on-one academic advising, attend lectures and panel discussions featuring department faculty and alumni, and go on field trips to campus resources. Students are not required to be declared majors in order to participate.

Rules & Requirements

Repeat rules: Course may be repeated for credit when topic changes.

Hours & Format

Fall and/or spring: 15 weeks - 1 hour of seminar per week

Additional Details

Subject/Course Level: Environmental Design/Undergraduate

Grading/Final exam status: Offered for pass/not pass grade only. Final exam not required.