COLLEGE OF ARCHITECTURE AND ENVIRONMENTAL DESIGN

Architecture and Environmental Design Bldg. (05), Room 212
Phone: 805.756.1321
http://caed.calpoly.edu

Dean: Christine Theodoropoulos
Associate Dean: Kevin Dong
Associate Dean: Michael Lucas
Assistant Dean: Mariam Emyan
Assistant Dean: Lorna Malcolm

Academic Programs

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The five undergraduate programs share the common objective of betterment of the human physical environment through the effective application of natural and cultural systems knowledge in planning, design and construction. They are all nationally accredited by their respective external review organizations.

The masters degree programs are designed for students interested in advanced focused studies. The MS Architecture program has a research focus. The college offers the Master of City and Regional Planning (MCRP). The joint MCRP/MS Engineering with a specialization in Transportation Planning is an interdisciplinary program. It is a cooperative effort between the colleges of Engineering and Architecture and Environmental Design. The MS in Architectural Engineering is a professional degree aimed at advanced study in structural design analysis and construction trends. It is possible to blend this degree with the BS Architectural Engineering.

The college has various enhanced computing capabilities including Geographic Information System Technology, Computer-Aided Design and Immersive Visualization (virtual reality).

Students interested in pursuing one of the five undergraduate program offerings within the college should familiarize themselves with the appropriate curriculum flow chart, available online and through the College Advising Center, Architecture and Environmental Design Bldg. (05), Room 221, and departments. Special attention is directed to the sequencing of courses and prerequisite requirements. Students who plan to transfer from a California community college should schedule classes to maximize transfer units. Current admission requirements may be found on the Cal Poly website (www.calpoly.edu).

As a consequence of the periodic review and accreditation requirements of its programs, the college reserves the right to keep selected student projects for its archives. These projects are returned to students at the discretion of their respective department faculty.

Additional information about the college and its programs may be found at its website, http://caed.calpoly.edu.

CAED Advising Center
Ellen Notermann, Director
Bldg. (05), Room 210
Phone: 805.756.1325
http://www.caed.calpoly.edu/content/current/caed-advising
The Advising Center processes most student-related forms including those for curriculum substitution, course withdrawal, change of major and other forms. Curriculum sheets, flowcharts, information on CAED minors, jobs, scholarships and competitions are located in the Advising Center.

Interdisciplinary Minors

Real Property Development Minor
Construction Management Department (186), Room A100
Phone: 805.756.1323
Scott Kelting, Minor Advisor
skelting@calpoly.edu
This minor is designed for students who are interested in the built environment, and want to expand their knowledge of how projects get initiated, move through the development process, and then how they are managed after construction.

The program is designed to prepare students for entry-level employment with professionals engaged in real property development. Courses include aspects of practitioners' real world experiences and knowledge of state-of-the-art practices, techniques, and challenges.

Students learn about the economic, design, environmental, and regulatory factors that influence housing, office, industrial, and commercial projects. They gain a clearer understanding of how these factors impact green development, urban sprawl, place-making, and transit oriented development.

Sustainable Environments Minor
Landscape Architecture Department (34), Room 212
Phone: 805.756.2040
Joseph Ragsdale, Minor Advisor
jragsdal@calpoly.edu (jragsdal@calpoly.edu)

This minor educates students within the University in the principles and various aspects of sustainable environmental design with global, regional and local perspectives and concepts. It provides students with the knowledge and abilities needed to integrate concerns for ecology, social equity and economics within the context of human and natural resource systems and the built environment.

Environmental Studies Minor
Students who complete the Environmental Studies Minor, coordinated through the College of Science and Mathematics (see the College of Science and Mathematics (http://catalog.calpoly.edu/collegesandprograms/collegeofsciencemathematics/#text)catalog section for additional information), are able to:

- Analyze, explain, and evaluate environmental issues from both scientific/technical and social/political/economic perspectives.
- Integrate and synthesize knowledge from multiple disciplines.
- Explain and apply the methodologies and approaches that different disciplines bring to bear on complex problems.
- Work productively and effectively with students from other disciplines and with other points of view.
- Confront real issues of contemporary significance; issues that affect them and their future.
- Gain employment or pursue further study that emphasizes interdisciplinary knowledge and skills.

The College of Architecture and Environmental Design offers the following course options as a part of this minor:

- EDES 406 Sustainable Environments
- CRP 336 Introduction to Environmental Decision Making
- CRP 404 Environmental Law

EDES Courses
EDES 101. Introduction to Architecture and Environmental Design. 2 units
Term Typically Offered: TBD
Familiarization with the professional fields of architecture, landscape architecture, structural engineering, construction, and city planning. Introduction to the college’s programs as they relate to individual aptitudes. The design process. Visiting speakers. 2 lectures.

EDES 123. Principles of Environmental Design. 4 units
GE Area D4
Term Typically Offered: F, W, SP
Recommended: Previous or concurrent enrollment in ARCH 131 for ARCH majors.

EDES 333. Professional Presentations. 4 units
Term Typically Offered: TBD
Prerequisite: Third-year standing or permission of instructor.

Skills and tools for employment acquisition or graduate school admissions. Individual resume design and production. Documentation of personal, professional and academic experience via written, oral and image based systems. Employment interview dynamics. Electronic and hardcopy portfolio production. Internet marketing. 1 lecture, 3 activities.

EDES 350. The Global Environment. 4 units
GE Area F
Term Typically Offered: TBD
Prerequisite: Junior standing; completion of GE Area A with a grade of C- or better; and completion of GE Area B.

Interdisciplinary investigation of how human activities impact the Earth’s environment on a global scale. Examination of population, resource use, climate change, and biodiversity from scientific/technical and social/ economic/ historical/political perspectives. Use of remote sensing maps. Sustainable solutions. 4 lectures. Crosslisted as AG/EDES/ENGR/GEOG/ISLA/SCM/UNIV 350. Fulfills GE Area F.
EDES 406. Sustainable Environments. 4 units
Term Typically Offered: F
Prerequisite: Fourth year or graduate standing.

Collaboration of interdisciplinary faculty and guest speakers/panelists. Introduction, illustration and analysis of concepts and principles for sustainability to be used in all aspects of environmental design. Integration and application of knowledge of human and natural systems with environmental, social and economic concerns, from a global-to-local perspective. 4 lectures.

EDES 408. Implementing Sustainable Principles. 4 units
Term Typically Offered: W, SP
Prerequisite: EDES 406.

A primarily project-based course, intended to aid students who wish to collaborate with the purpose of implementing sustainability principles by developing tools, process or designs, for community-based projects and proposals at various scales of planning, architecture and design of the human environment to address social, environmental and economic issues. 4 lectures.

EDES 410. Advanced Implementation of Sustainable Principles. 4 units
Term Typically Offered: W, SP
Prerequisite: EDES 408.

Advanced continuation of community-based projects defined and initiated in EDES 408. Ongoing projects, individual and group, address variable scales of planning, architecture, and environmental design, with required completion at the end of the course. 2 seminars and supervised work.