Programs of Study

The Program in Environmental Design at CU Boulder prepares students for graduate study and careers in architecture, landscape architecture, planning, urban design and other design professions. With a diverse faculty committed to excellence in teaching, research, scholarship and creative and professional work, the program provides students with a varied range of learning opportunities.

The Program in Environmental Design encourages students to expand their education opportunities and explore certificates available on campus. Students interested in the certificate options below or minors offered at CU should contact their academic advisor to have a plan set in place prior to their junior year.

To filter through all the minors and certificates offered at CU Boulder, see the undergraduate Programs A-Z (catalog.colorado.edu/programs-a-z/#filter=filter_20&filter_21) section.

Bachelor's Degree

- Environmental Design - Bachelor of Environmental Design (BEnvd) (catalog.colorado.edu/undergraduate/colleges-schools/environmental-design/bachelor-of-environmental-design-benvd)

Minor

- Environmental Design - Minor (catalog.colorado.edu/undergraduate/colleges-schools/environmental-design/programs-study/environmental-design-minor)

Faculty

While many faculty teach both undergraduate and graduate students, some instruct students at the undergraduate level only. For more information, contact the faculty member's home department.

Arias, Ernesto G.
Professor Emeritus

Banasiak, Meredith A (https://experts.colorado.edu/display/fisid_144267)
Senior Instructor Adjunct; MArch, Arizona State University

Bellucci, Justin T (https://experts.colorado.edu/display/fisid_147703)
Instructor

Chawla, Louise
Professor Emeritus

De Lange, Marcel Sebastian (https://experts.colorado.edu/display/fisid_140404)
Senior Instructor; MS, Delft University of Technology (Netherlands)

Drennan, Kimberly Alaine (https://experts.colorado.edu/display/fisid_152242)
Instructor; MArch, Rhode Island School of Design

Goldstein, Bruce Evan (https://experts.colorado.edu/display/fisid_147755)
Associate Professor; PhD, University of California-Berkeley

Holbert, Marianne Bellino (https://experts.colorado.edu/display/fisid_146986)
Senior Instructor; MArch, Washington University

Juhasz, Joseph
Professor Emeritus

Kahn, David C (https://experts.colorado.edu/display/fisid_148105)
Senior Instructor Adjunct

Kemp, David John (https://experts.colorado.edu/display/fisid_158828)
Lecturer

Krizek, Kevin J. (https://experts.colorado.edu/display/fisid_145292)
Professor; PhD, University of Washington

Lanterm, John Chesley (https://experts.colorado.edu/display/fisid_140309)
Senior Instructor; MLA, University of Colorado Denver

Lindsay, Georgia (https://experts.colorado.edu/display/fisid_152004)
Senior Instructor; PhD, University of California-Berkeley

McCall, Raymond (https://experts.colorado.edu/display/fisid_102673)
Associate Professor; PhD, University of California-Berkeley

Muller, Brian H F (https://experts.colorado.edu/display/fisid_140230)
Associate Professor; PhD, University of California-Berkeley

Polizzi, Jade Venus (https://experts.colorado.edu/display/fisid_140368)
Senior Instructor; MArch, University of Colorado Denver

Rogers, Sarah (https://experts.colorado.edu/display/fisid_142221)
Senior Instructor; MArch, University of Colorado Denver

Roudbari, Shawhin (https://experts.colorado.edu/display/fisid_153645)
Assistant Professor; PhD, University of California-Berkeley

Sancar, Fahriye Hazer
Professor Emeritus

Schulte, Stacey Lynn (https://experts.colorado.edu/display/fisid_146819)
Instructor

Tavel, Michael D (https://experts.colorado.edu/display/fisid_148855)
Senior Instructor Adjunct

Van Vliet, Willem K. T.
Professor Emeritus; PhD, University of Toronto

Xu, Ping (https://experts.colorado.edu/display/fisid_101140)
Professor; PhD, Harvard University

Courses

ARCH 4010 (S) Architectural Appreciation and Design
Introduces basic processes and principles of architectural design. Provides a basis for understanding and evaluating architecture.

Requisites: Restricted to students with 57-180 credits (Junior or Senior) Architectural Engineering (AREN) majors only.
ENVD 1001 (1) ENVD First-Year Seminar
Transitions first-year ENVD students into college through the process of discovering their path to educational success. Provide opportunities to facilitate learning through peer support groups and curricular integration with the ENVD core classes.
**Grading Basis:** Letter Grade
**Additional Information:** Departmental Category: Social Factors

**Recommended:** Nonmajors on a space available basis.

ENVD 1010 (3) Design Appreciation
Designed for students who are interested in pursuing a degree in design. Provides a foundation for viewing the world through the "eyes" of a designer and gives a broad overview of various design professions including: Architecture, Planning, Landscape Architecture, and Industrial Design through a basic history of design and speculation concerning the future of these professions.
**Grading Basis:** Pass/No Pass
**Additional Information:** Departmental Category: History and Theory

**Recommended:** Corequisites ENVD 1052 and ENVD 2001.

ENVD 1012 (3) Digital Representation Methods for Environmental Design
Guides students through a process of exploration and expression using various digital design and representation techniques common to the disciplines of environmental design. This course seeks to demystify contemporary practices in digital design methods and propels students into this discourse with ongoing experimentation in digital design media. It will expose students to Adobe Creative Suite, AutoCAD and SketchUp.
**Grading Basis:** Pass/No Pass
**Additional Information:** Departmental Category: Methods and Techniques

**Recommended:** Corequisite ENVD 3115.

ENVD 1052 (3) Design and Communication 1
Using both lectures and drawing exercises, this class extends understandings of the representational conventions used by the design professions through its introduction to the possibilities offered by emerging digital techniques for the depiction of designed artifacts and environments, allowing students to extend and enhance their understandings of advanced practices for design visualization, representation and communication.
**Recommended:** Corequisites ENVD 1004 and ENVD 2001.
**Additional Information:** Departmental Category: Methods and Techniques

ENVD 1102 (3) Design and Communication 2
Using both lectures and drawing exercises, this class extends understandings of the representational conventions used by the design professions through its introduction to the possibilities offered by traditional techniques for the advanced practices for design visualization, representation, and communication.
**Recommended:** Corequisite ENVD 1052 (minimum grade C-). Restricted to Program in Environmental Design major or minor students only.
**Additional Information:** Departmental Category: Methods and Techniques

ENVD 1104 (3) Introduction to Environmental Design Methods
Explores the forces and conditions that interact to shape the designed environment. It does so through a lecture sequence and parallel set of design exercises introducing students to the theory and practice of environmental design. It develops student understandings of the central role design thinking plays as the unique process used to effect appropriate change in the designed environment.
**Recommended:** Corequisites ENVD 1102 and ENVD 2003.
**Additional Information:** Departmental Category: History and Theory

ENVD 2001 (3) Human Behavior in Design and Planning
Examines reciprocal relationships between people and their built and natural environments, tracing major issues and approaches in design research to understand how people are influenced by the environment and how they can create healthy, just, and livable places.
**Recommended:** Corequisites ENVD 1004 and ENVD 1052.
**Additional Information:** Departmental Category: Social Factors

ENVD 2003 (3) Ecology and Design
Introduces basic principles and techniques of ecology as they relate to the design and understanding of the built environment. Includes a study of hazards and the impact of modern technology on the natural and built environments.
**Recommended:** Corequisites ENVD 1102 and ENVD 1104.
**Additional Information:** Departmental Category: Physical Factors

ENVD 2120 (6) Environmental Design Studio 1
Exposes students to a sequence of design investigations that lead to the development of design concepts for critical evaluation and discussion. The intent of this introductory design studio is to expose students to the fundamental design practices that are common to the disciplines of environmental design, planning, urban design and landscape design - that share the responsibility for shaping the designed environment.
**Recommended:** Corequisite ENVD 1102 (minimum grade C-). Restricted to Program in Environmental Design major or minor students only.
**Additional Information:** Departmental Category: Studios

ENVD 2130 (6) Environmental Design Studio 2
Exposes students to a sequence of design investigations that lead to the development of design concepts for critical evaluation and discussion. The intent of this introductory design studio is to expose students to the fundamental design practices that are common to the disciplines of architecture, urban design and landscape design - disciplines that share the responsibility for shaping the designed environment.
**Recommended:** Corequisite ENVD 2120 (minimum grade C-). Restricted to Program in Environmental Design major or minor students only.
**Additional Information:** Departmental Category: Studios

ENVD 3003 (3) Site Planning
Introduces the site planning process including: site analysis and its relationship to building program and site concept, and preparation of site plans. Emphasis is placed on the planning of the physical site through a thorough understanding of process, land use, site constraints and synthesis of ecological, functional and aesthetic considerations in the site planning process.
**Recommended:** Corequisite ENVD 2130.
**Additional Information:** Departmental Category: Physical Factors
ENVD 3009 (1-6) Special Topics in Environmental Design
Provides a seminar or design lab on special issues in environmental design, including study abroad. Variable topic class. 
Repeatable: Repeatable for up to 18.00 total credit hours. Allows multiple enrollment in term.
Recommended: Prerequisites ENVD 1004 and ENVD 1052.
Additional Information: Departmental Category: Miscellaneous

ENVD 3052 (3) Introduction to Computer Methods in Environmental Design
Surveys existing and emerging computer methods used in the environmental design professions, with an introduction to computer programming. Open to nonmajors with instructor consent. 
Additional Information: Departmental Category: Methods and Techniques

ENVD 3100 (6) Environmental Design Studio 3
Exposes students to a sequence of design investigations that lead to the development of design concepts for critical evaluation and discussion. The intent of this introductory design studio is to expose students to the fundamental design practices that are common to the disciplines of environmental design, planning, urban design and landscape design - that share the responsibility for shaping the designed environment.
Requisites: Requires prerequisite course of ENVD 2120 (minimum grade C-). Restricted to Program in Environmental Design major or minor students only. 
Recommended: Corequisite ENVD 3122.
Additional Information: Departmental Category: Studios

ENVD 3114 (3) History and Theory of Environmental Design at the Small Scale: Buildings
Focusing on buildings, this class surveys the built environment from the beginning of time through the present day. Emphasizing developments in the western world, it develops students' recognition of major styles, influential people, and drivers of building form. 
Additional Information: Departmental Category: History and Theory

ENVD 3115 (3) Introduction to Building Materials and Systems
Surveys building methods, materials and assemblies from the designer’s perspective. 
Recommended: Corequisite ENVD 2120.
Additional Information: Departmental Category: Technology and Practice

ENVD 3122 (3) Research Issues and Methods in Design and Planning
Explores topics of current interest in planning. Looks at the development and social consequences of the neighborhood movement, forms of municipal and regional governments, regional settlement patterns, and new communities. Introduces selected methods from the social sciences used by planners and urban designers. 
Recommended: Corequisite ENVD 3100.
Additional Information: Departmental Category: Methods and Techniques

ENVD 3134 (3) History and Theory of Environmental Design and the Medium Scale: Precincts
Focuses on design projects not in a building envelope, including landscapes, public and private urban spaces, complexes and similarly scaled design projects. Aspects of architectural and planning thinking are interwoven in a landscape concentration. 
Additional Information: Departmental Category: History and Theory

ENVD 3144 (3) History and Theory of ENVD: Systems
Provides an introduction to the history of urban planning and design practices and processes. Examines the history of city-building using examples drawn from the United States as well as other countries. Emphasis is on developing analytical methods and a critical approach in discussing and evaluating historical and contemporary planning issues, mechanisms and cases.
Additional Information: Departmental Category: History and Theory

ENVD 3152 (3) Introduction to Computer Graphics Applications
Explores principles and uses of computer graphics in design. Topics include creation and modification of complex two- and three-dimensional objects; orthographic and perspective views; use of color; input using mouse and digitizer; output using screen, plotter, matrix printer, and slides; automated aids for form generation and manipulation; and analysis of current and future trends of computer usage for design. 
Repeatable: Repeatable for up to 12.00 total credit hours. Allows multiple enrollment in term.
Additional Information: Departmental Category: Methods and Techniques

ENVD 3200 (1-6) Advanced ENVD Studio
Design studio dealing with problems at an intermediate level of complexity; emphasis is on the interaction of form, use, and multiple values and technologies in conjunction with issues and techniques drawn from other content area courses of the curriculum. 
Repeatable: Repeatable for up to 18.00 total credit hours. Allows multiple enrollment in term. 
Requisites: Restricted to Program in Environmental Design major or minor students only. 
Recommended: Prerequisite ENVD 2130.
Additional Information: Departmental Category: Studios

ENVD 3212 (3) Color Theory
Illustrates color media techniques for the preparation, composition, and presentation of landscape and built environment drawings. 
Additional Information: Departmental Category: Methods and Techniques

ENVD 3252 (3) Computer Graphic Programming
Provides an introductory computer programming course designed to teach the capabilities of a computer in providing graphic representations of environments, including buildings. Open to nonmajors. 
Additional Information: Departmental Category: Methods and Techniques

ENVD 3300 (3-6) Special Topics: Intermediate Design Lab
Design lab exploring new and emerging themes in environmental design. 
Repeatable: Repeatable for up to 18.00 total credit hours. Allows multiple enrollment in term.
Requisites: Requires prerequisite course of ENVD 3100 (minimum grade C-). Restricted to Program in Environmental Design major or minor students only. 
Additional Information: Departmental Category: Studios

ENVD 3909 (1-6) Independent Study
By special arrangement with instructor. 00 GPA. 
Repeatable: Repeatable for up to 6.00 total credit hours. Allows multiple enrollment in term. 
Requisites: Requires prerequisite course of ENVD 3100 (minimum grade C-). 
Recommended: Prerequisite 3.
Additional Information: Departmental Category: Miscellaneous
ENVD 3919 (1-6) Teaching Assistant
By special arrangement with instructor. 00 GPA.
Repeatable: Repeatable for up to 99.00 total credit hours. Allows multiple
enrollment in term.
Requisites: Restricted to students with 57-180 credits (Juniors or
Seniors).
Recommended: Prerequisite 3.
Grading Basis: Pass/Fail
Additional Information: Departmental Category: Miscellaneous

ENVD 3929 (1) Peer Leadership and Mentorship and Transitioning
Students
Designed to explore the student transition to university life and engage
students in active leadership and mentoring capacity-building activities.
Examines the role peers play in leading students through transitional
development. Students will learn the theoretical basis for understanding
student transition and develop their mentoring capacities as well as
examine personal identity and values and its intersection with leadership
and mentorship.
Repeatable: Repeatable for up to 3.00 total credit hours.
Requisites: Restricted to students with 27-180 credits (Sophomore,
Junior, or Senior) Program in Environmental Design majors only.
Additional Information: Departmental Category: Miscellaneous

ENVD 3939 (3) Exploratory Internship
Offers professional experiences allowing students to discover a variety
of design-related environments such as community engagement, non-
profit work or assisting research. In addition to the internship experience,
students attend four classroom sessions providing professional
development exercises. 00 GPA.
Repeatable: Repeatable for up to 6.00 total credit hours.
Requisites: Requires prerequisite course of ENVD 1102 (minimum grade
C-). Restricted to students with 27-180 credits (Sophomore, Junior, or
Senior) Program in Environmental Design majors only.
Recommended: Prerequisite 2.
Grading Basis: Letter Grade
Additional Information: Departmental Category: Miscellaneous

ENVD 4009 (1-6) Special Topics in Environmental Design
Provides a seminar or design lab on special issues in environmental
design, including study abroad. Variable topics.
Repeatable: Repeatable for up to 18.00 total credit hours. Allows multiple
enrollment in term.
Recommended: Prerequisite ENVD 2120.
Additional Information: Departmental Category: Miscellaneous

ENVD 4023 (3) Environmental Impact Assessment
Provides a field-oriented seminar in current environmental impact
controversies. Gives attention to history, theory, and application of impact
analysis at state levels for designers, land-use planners, and others
involved in resource decision making. By instructor consent, open to
nonmajors on a space available basis.
Additional Information: Departmental Category: Physical Factors

ENVD 4035 (3) Solar and Sustainable Design
Introduces aspects of solar technology relevant to the environmental
design professions. Includes readings and lectures on the nature of
energy limitations, energy needs, and the potential role of solar energy in
meeting these needs.
Additional Information: Departmental Category: Technology and Practice

ENVD 4052 (3) Digital Presentation and Portfolio
Introductory course creating interactive web sites. Covers use of
Hypertext Markup Language (HTML) and Flash to create linked pages
containing text, images animations, menus, and buttons. Covers
principles of site navigation, page layout, and graphic design for
designers and planners.
Additional Information: Departmental Category: Methods and Techniques

ENVD 4100 (3-6) Advanced Design Lab 1
Design lab exploring new and emerging themes in design.
Repeatable: Repeatable for up to 18.00 total credit hours. Allows multiple
enrollment in term.
Requisites: Requires prerequisite course of ENVD 3300 (minimum grade
C-).
Additional Information: Departmental Category: Studios

ENVD 4112 (3) Architectural Graphics 1
Illustrates techniques of graphics communication and presentation for
architectural design. Includes advanced delineation and use of color.
Additional Information: Departmental Category: Methods and Techniques

ENVD 4122 (3) Digital Photo for Designers
Explores digital photographic workflow from capture to exhibition.
Students gain the ability to document their projects and utilize
photography as a means of creative expression. Topics include: using
dSLRs, Adobe Lightroom, retouching with Adobe Photoshop, time-
lapse photography, Adobe Premier, professional printing, landscape and
architectural photography, sharing work through blogs and social media,
and submitting work for publication and exhibition.
Additional Information: Departmental Category: Methods and Techniques

ENVD 4152 (3) Computer Graphic Applications
Introduces the mechanics of entering 2-D images and 3-D objects into
the computer. Once entered, graphics are interactively rotated in space,
walked through, and displayed in perspective from any position. Also
covers the mechanics of other computer programs allowing additional
manipulation of images and objects.
Additional Information: Departmental Category: Methods and Techniques

ENVD 4212 (3) Architectural Graphics 2
Covers development of an architectural set of construction documents
combined with job administration, field observation, and guest speakers
from related construction and architectural disciplines.
Additional Information: Departmental Category: Methods and Techniques

ENVD 4300 (3-6) Advanced Design Lab 2
Design lab exploring new and emerging themes in design.
Repeatable: Repeatable for up to 18.00 total credit hours. Allows multiple
enrollment in term.
Requisites: Requires prerequisite course of ENVD 4100 (minimum grade
C-). Restricted to Program in Environmental Design major or minor
students only.
Additional Information: Departmental Category: Studios

ENVD 4311 (3) Housing Policies and Practices
A seminar providing students with a descriptive knowledge and analytical
understanding of the use and development of residential settings in
different political economies, globally divided into advanced capitalist
nations, collectivist economies, and the third world.
Additional Information: Departmental Category: Social Factors
ENVD 4322 (1-6) Special Topics: Graphics
Provides an advanced seminar on special issues in design communications. May be repeated for credit by petition.
Repeatability: Repeatable for up to 99.00 total credit hours. Allows multiple enrollment in term.
Additional Information: Departmental Category: Methods and Techniques

ENVD 4340 (4-6) Landscape Design Studio
Studio in landscape design.
Requisites: Requires prerequisite course of ENVD 3300 (minimum grade C). Restricted to Program in Environmental Design major or minor students only.
Additional Information: Departmental Category: Studios

ENVD 4352 (1-6) Special Topics: Computer Methods
Topics include animation and environmental simulation, computational methods of technical evaluation and optimization, and computational mapping and analysis. May be repeated for credit by petition.
Repeatability: Repeatable for up to 99.00 total credit hours. Allows multiple enrollment in term.
Additional Information: Departmental Category: Methods and Techniques

ENVD 4361 (1-6) Special Topics: Social Factors in Design
Addresses variable topics in the relationship of human experience and behavior to the built environment, e.g., social research methods in environmental design.
Repeatability: Repeatable for up to 99.00 total credit hours. Allows multiple enrollment in term.
Additional Information: Departmental Category: Social Factors

ENVD 4363 (1-6) Special Topics: Physical Factors in Environmental Design
Includes such topics as appropriate technology, public policy and natural hazards, organization of the designing and building process, and physical elements of urban development.
Repeatability: Repeatable for up to 99.00 total credit hours. Allows multiple enrollment in term.
Additional Information: Departmental Category: Physical Factors

ENVD 4364 (1-6) Special Topics: History and Historiography of Environmental Design
Provides an advanced seminar on history and historiography of environmental design, e.g., American dwellings. May be repeated for credit by petition.
Repeatability: Repeatable for up to 99.00 total credit hours. Allows multiple enrollment in term.
Additional Information: Departmental Category: History and Theory

ENVD 4365 (1-6) Special Topics: Technology and Practice
Provides an advanced seminar on new technologies and issues of professional practice in the environmental design professions.
Repeatability: Repeatable for up to 99.00 total credit hours. Allows multiple enrollment in term.
Additional Information: Departmental Category: Technology and Practice

ENVD 4420 (3) Senior Capstone Seminar
Advanced seminar focuses on theoretical concerns and practical issues inherent in environmental design and planning. Views concerns and issues in terms of setting, processes, and planning and design outcomes. Provides a critical synthesis of the inherently interdisciplinary nature of planning and design education.
Requisites: Restricted to Program in Environmental Design major or minor students only.
Additional Information: Departmental Category: Studios

ENVD 4440 (6) Landscape Design Studio 2
A preprofessional studio in landscape architecture.
Requisites: Requires prerequisite course of ENVD 4340 (minimum grade C).
Additional Information: Departmental Category: Studios

ENVD 4764 (1-6) Special Topics: Theory and Criticism in Environmental Design
Provides an advanced seminar on theory and criticism in environmental design, e.g., architecture now and introduction to design theory and criticism. May be repeated for credit by petition.
Repeatability: Repeatable for up to 99.00 total credit hours. Allows multiple enrollment in term.
Additional Information: Departmental Category: History and Theory

ENVD 4794 (3) History of Urban Design and Planning
Examines history of European and American planning and urban design in the late 19th and 20th centuries.
Requisites: Restricted to Program in Environmental Design major or minor students only.
Additional Information: Departmental Category: History and Theory

ENVD 4909 (1-6) Independent Study
By special arrangement with instructor. 00 GPA.
Repeatability: Repeatable for up to 6.00 total credit hours. Allows multiple enrollment in term.
Requisites: Requires prerequisite course of ENVD 3100 (minimum grade C).
Recommended: Prerequisite 3.
Additional Information: Departmental Category: Miscellaneous

ENVD 4919 (1-6) Teaching Assistant
By special arrangement with instructor. 00 GPA.
Repeatability: Repeatable for up to 99.00 total credit hours. Allows multiple enrollment in term.
Requisites: Requires prerequisite course of ENVD 3100 (minimum grade C).
Recommended: Prerequisite 3.
Grading Basis: Pass/Fail
Additional Information: Departmental Category: Miscellaneous

ENVD 4929 (1-6) Research Assistant
By special arrangement with instructor. 00 GPA.
Repeatability: Repeatable for up to 99.00 total credit hours. Allows multiple enrollment in term.
Requisites: Requires prerequisite course of ENVD 3100 (minimum grade C).
Recommended: Prerequisite 3.
Additional Information: Departmental Category: Miscellaneous

ENVD 4939 (3) Professional Design Internship
Allows students to develop design and professional skills outside of the curriculum while working for an architecture, landscape architecture or planning firm. In addition to the internship experience, students attend four classroom sessions providing professional development exercises. 00 GPA.
Repeatability: Repeatable for up to 6.00 total credit hours.
Requisites: Requires prerequisite course of ENVD 3100 (minimum grade C). Restricted to students with 57-180 credits (Junior or Senior) Program in Environmental Design majors only.
Recommended: Prerequisite 3.
Grading Basis: Letter Grade
Additional Information: Departmental Category: Miscellaneous
ENVD 4972 (3) Honors Research Methods and Thesis Preparation
To prepare students for undertaking an independent research or design project in Environmental Design, this asks students to engage with existing literature in the field. Students will understand how research and design projects are conducted, and how their own work fits within a long tradition of scholarship. Department consent required.
Requisites: Restricted to students with 57-180 credits (Juniors or Seniors).
Additional Information: Departmental Category: Miscellaneous

ENVD 4979 (3) Honors Thesis
Working with an advisor, students prepare, complete, and defend an honors thesis project, either written or creative.
Requisites: Restricted to students with 57-86 credits (Junior).
Additional Information: Departmental Category: Miscellaneous