

ENVIRONMENTAL DESIGN - BACHELOR OF ENVIRONMENTAL DESIGN (BENV D)

Program Overview Structure of the Undergraduate Curriculum

The Bachelor of Environmental Design curriculum is comprised of a shared core (lasting three semesters) followed by five semesters of coursework focused on one of four majors: architecture, landscape architecture, sustainable planning and design, and environmental product of design.

The shared core provides an intensive and balanced introduction to the traditional professions contained within the broad field of environmental design. The core provides students the information and flexibility to hone their career direction and major area. It allows opportunities for hands-on problem solving that features eight-week design studios as the primary teaching pedagogy. Anchored through a combination of lecture courses and studio instruction, the core curriculum builds upon studios where students solve design problems at three important scales of the built-environment: buildings, landscapes and urban systems.

Prospective students often choose to enroll at CU in ENVD because they can advantageously leverage their first three semesters to help determine which specialization matches their strengths and aspirations. Others are attracted to ENVD because they can declare a major at the outset of their studies. Even more will choose ENVD because there is the opportunity to change their mind towards the end of the core and pursue a major to reflect their changing interests without a loss of credit or time towards graduation.

The major coursework in the final five semesters allows students to pursue in-depth projects and gain more specialized skills necessary for pre-professional work or further study. Students can also pursue approved international study abroad options as part of the curriculum as well. The final year culminates into capstone requirements for the chosen major.

Educational Advantages of the BEnvD

The Program in Environmental Design provides a balanced introduction to environmental design. Despite the many design programs across the country, most focus on providing a generalized experience too broad to provide an in-depth exposure to the fundamentals of each discipline. ENVD's emphasis on both the breadth and depth of design allows students to gain the appreciation, information, skills, and experiences needed to make an informed decision about their career direction.

For the past 50 years, ENVD has retained a focus on studio instruction in small class sizes. From a student's first semester, they learn to work both in small groups and individually to solve design problems. Unlike most majors across the university, by the end of a student's first year, the small classes and unique teaching relationships will build relationships with several faculty and a cohort of their peers.

ENVD's curriculum stresses both critical thinking and applied project work. Experiential learning is a core component of design education with students engaging in design, build and fabrication activities. Student satisfaction within higher education has been directly linked to teaching that incorporates projects where small student groups work together to solve problems that they know are important.

The pedagogy of the program celebrates an interdisciplinary culture for both students and faculty. Mirroring emerging workplace trends in industry, students work within teams. Sometimes students work within multi-disciplinary teams where each profession shares its expertise and coordinates with others and sometimes within inter-disciplinary teams where the separate expertise is not as important as the ability to mutually and collaboratively define and solve a problem. Increasingly, in environmental design, at the end of each project the list of participants is as long as the endless list of credits we watch at the end of a motion picture.

Education Abroad

The Program in Environmental Design has, along with the office of Education Abroad, developed an exciting selection of study-abroad options. Studying abroad gives students an array of unique experiences, and it can make students more competitive for graduate study and for employment. Summer programs and faculty-led programs are available to students after their first year of study. Full-semester programs are available to students starting in their third year. The study abroad program provides an academically challenging experience with extensive local support.

Environmental design programs in architecture, urban design or urban planning are offered in Sydney, London, Rome, Denmark and Barcelona. In addition, the office of Education Abroad offers more than 25 programs which offer courses appropriate to design. These courses offer students an opportunity to study the process of design in another culture and to examine their own perceptions and attitudes toward design. Programs outside of the preapproved listing may be considered for approval. Please meet with an ENVD academic advisor for details.

For more information about the study abroad programs, contact:

Education (<http://abroad.colorado.edu>) Abroad (<https://abroad.colorado.edu>)

University of Colorado Boulder

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Boulder, CO 80309-0123

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General Requirements

Required Courses and Credits

Students must complete a minimum of 120 credit hours subject to the maximum outlined in this catalog, meet all specified university general education requirements, all major core requirements and maintain a GPA of 2.00 or better. Students must complete courses with a grade of C- or better to fulfill university and degree requirements.

The curriculum for the Bachelor of Environmental Design (BEnvD) is subdivided into two parts:

1. The first part consists of a core lasting one-and-a-half years which provides a balanced introduction to each of the majors offered. By the end of the core studies, students select or confirm their intended major.

2. The second part is focused on a selected major. Studies lead to the degree Bachelor of Environmental Design (BEnvD) with a major in either architecture, landscape architecture, sustainable planning and design or environmental product of design. Each specialization has specific requirements for completing the major.

Sample Four-Year Plans of Study

The first three semesters of the BEnvD curriculum is core which is prerequisite for each of the majors: architecture, landscape architecture, sustainable planning and design, and environmental product of design. There are corequisite ENVD core courses each semester, and the core courses are sequential from semester to semester.

ENVD Core

Course	Title	Credit Hours
First Year		
Fall Semester		
ENVD 1010	Studio 1: Introduction to Environmental Products of Design	3
ENVD 1020	Studio 1: Introduction to Architecture	3
ENVD 1002	Technology 1: Applications for Environmental Design	1
ENVD 1004	Introduction to Environmental Design	3
ENVD 1976	Colloquium - Exploring Careers, Research and Practice	1
Writing requirement (choose one: ARSC 1150, ENVD 1150, ENVS 1150 or WRTG 1150)		3
Credit Hours		14
Spring Semester		
ENVD 1030	Studio 1: Introduction to Landscape Architecture	3
ENVD 1040	Studio 1: Introduction to Planning and Urban Design	3
ENVD 1012	Technology 2: Visual Communications	3
ENVD 1024	History of the Built Environment	3
Arts and Humanities requirement ¹		3
Credit Hours		15
Second Year		
Fall Semester		
Studio list (choose two of the following)		6
ENVD 1110	Studio 2: Fundamentals of Environmental Products of Design	
ENVD 1120	Studio 2: Fundamentals of Architecture	
ENVD 1130	Studio 2: Fundamentals of Landscape Architecture	
ENVD 1140	Studio 2: Fundamentals of Planning and Urban Design	
ENVD 1022	Technology 3: Intermediate Applications for Environmental Design	1
ENVD 2003	Ecological Systems in Design	3
ENVD 2101	Planning and Implementation: the Context of Design	3

Social Science requirement ²	3
Credit Hours	16
Total Credit Hours	45

- ¹ Arts and Humanities list (https://www.colorado.edu/artsandsocieties/sites/default/files/attached-files/as_gen_ed_-_distribution-arts_humanities_courses_1.pdf).
- ² Social Science list (https://www.colorado.edu/artsandsocieties/sites/default/files/attached-files/as_gen_ed_-_distribution-social_sciences_courses1.pdf).

Majors

Environmental Product of Design

The environmental product of design major takes cues and information from the majors of architecture, landscape architecture, sustainable planning and design and product design and stewards project outcomes towards fostering a better, sustainable environment for all. These outcomes can be entrepreneurial, reproducible, of smaller scale and not necessarily site specific.

Course	Title	Credit Hours
Second Year		
Spring Semester		
EPOD 2100	Studio 1: Foundations of Environmental Products of Design	6
ENVD 2001	Human Behavior and Design	3
EPOD 2004	History and Theory of Environmental Products of Design	3
Upper-Division Writing requirement ¹		3
Credit Hours		15
Third Year		
Fall Semester		
EPOD 3100	Studio 2: Intermediate Environmental Products of Design	6
EPOD 3101	Ethics and Professional Responsibilities for Environmental Products of Design	3
Upper-Division Arts and Humanities or Social Science requirement ²		3
ENVD elective		3
Credit Hours		15
Spring Semester		
Studio (choose one: ARCH 2100, LAND 2100, PLAN 2100 or EPOD 3100)		6
EPOD 3105	Applied Design Thinking and Entrepreneurship for Environmental Products of Design	3
Natural Science requirement (choose one pair: PHYS 2010, EBIO 1030 + EBIO 1050, EBIO 1210 + EBIO 1230, or CHEM 1113 + CHEM 1114)		3-5
Elective		3
Credit Hours		15-17
Fourth Year		
Fall Semester		
Specialized Elective (additional studio, minor, non-major related study abroad or electives)		6

EPOD 4012	EPOD Capstone Proposal Seminar	3
Mathematics requirement (choose one: MATH 1150, MATH 1300, MATH 2510 or SOCY 2061)		3-5
Elective		3
Credit Hours		15-17
Spring Semester		
EPOD 4100	Studio 3: Capstone in Environmental Products of Design	6
ENVD elective		3
Elective		6
Credit Hours		15
Total Credit Hours		75-79

- ¹ Upper-Division Writing (https://www.colorado.edu/artsandsciences/sites/default/files/attached-files/as_gen_ed_-_skills-ud_written_communication_courses.pdf) or ENVD 3150
- ² Upper-Division Humanities (https://www.colorado.edu/artsandsciences/sites/default/files/attached-files/as_gen_ed_-_distribution-arts_humanities_courses_1.pdf) (3000/4000-level courses); Upper-Division Social Science (https://www.colorado.edu/artsandsciences/sites/default/files/attached-files/as_gen_ed_-_distribution-social_sciences_courses1.pdf) (3000/4000-level courses)

Architecture

The architecture major focuses on the design and development of the built environment. At ENVD, we encompass broad topics of sites, program, materiality, structural systems, modern technologies, human interconnectedness and social interaction. This specialty endeavors to teach our students to be responsible citizens and stewards of aesthetic, ethical, social, economic and environmental concerns.

Course	Title	Credit Hours
Second Year		
Spring Semester		
ARCH 2100	Studio 1: Foundations of Architecture	6
ENVD 2001	Human Behavior and Design	3
ARCH 2115	Architecture Materials and Methods	3
Upper-Division Writing requirement ¹		3
Credit Hours		15
Third Year		
Fall Semester		
ARCH 3100	Studio 2: Intermediate Architecture	6
ARCH 3114		
Upper-Division Arts and Humanities or Social Science requirement ²		3
ENVD elective		3
Credit Hours		12
Spring Semester		
Studio (choose one: EPOD 2100, LAND 2100, PLAN 2100 or ARCH 3100)		6
ARCH 3214	History and Theory of Architecture 2	3
PHYS 2010	General Physics 1	5
Elective		3
Credit Hours		17

Fourth Year

Fall Semester		
Specialized Elective (additional studio, minor, non-major related study abroad or electives)		6
ARCH 4115	Architecture Building Technology	3
MATH 1300	Calculus 1	5
Elective		3
Credit Hours		17
Spring Semester		
ARCH 4100	Studio 3: Capstone in Architecture	6
ENVD elective		3
Non-ENVD elective		6
Credit Hours		15
Total Credit Hours		76

- ¹ Upper-Division Writing (https://www.colorado.edu/artsandsciences/sites/default/files/attached-files/as_gen_ed_-_skills-ud_written_communication_courses.pdf) or ENVD 3150
- ² Upper-Division Humanities (https://www.colorado.edu/artsandsciences/sites/default/files/attached-files/as_gen_ed_-_distribution-arts_humanities_courses_1.pdf) (3000/4000-level courses); Upper-Division Social Science (https://www.colorado.edu/artsandsciences/sites/default/files/attached-files/as_gen_ed_-_distribution-social_sciences_courses1.pdf) (3000/4000-level courses)

Landscape Architecture

The landscape architecture major teaches students to design environments in urban, rural and agricultural contexts at all scales. Students learn strategies to repair and strengthen ecological systems, create and restore habitats, manage stormwater, express cultural values, and support human health and well-being. This major encourages students to explore the cultural value of landscapes, to redefine how landscape architects can transform the urban fabric, and to design resilient, climate-responsive projects.

Course	Title	Credit Hours
Second Year		
Spring Semester		
LAND 2100	Studio 1: Foundations of Landscape Architecture	6
ENVD 2001	Human Behavior and Design	3
LAND 2004	History of Landscape Architecture	3
Upper-Division Writing requirement ¹		3
Credit Hours		15
Third Year		
Fall Semester		
LAND 3100	Studio 2: Intermediate Landscape Architecture	6
LAND 3103	Planting Design and Ecology	3
Upper-Division Arts and Humanities or Social Science requirement ²		3
ENVD elective		3
Credit Hours		15

Spring Semester

Studio (Choose one: EPOD 2100, ARCH 2100, PLAN 2100 or LAND 3100)	6
LAND 3003 Site Planning, Materials, and Technologies	3
Natural Science requirement (Choose one or one pair: ATOC 3600, CHEM 1011, CHEM 1113 + CHEM 1114, EBIO 1030 + EBIO 1050, EBIO 1210 + EBIO 1230, EBIO 1220 + EBIO 1240, EBIO 3590, EBIO 4060, GEOG 1001, GEOG 1011, GEOL 1060, PHYS 2010)	3-5
Elective	3
Credit Hours	15-17

Fourth Year**Fall Semester**

Specialized Elective (additional studio, minor, non-major related study abroad or electives)	6
LAND 4114 Landscape Architecture Theory	3
Mathematics requirement (choose one: MATH 1081, MATH 1150, MATH 1300, MATH 2380, MATH 2510, SOCY 2061 or PSCI 2075)	3-5
Elective	3
Credit Hours	15-17

Spring Semester

LAND 4100 Capstone in Landscape Architecture	6
ENVD elective	3
Elective	6
Credit Hours	15
Total Credit Hours	75-79

¹ Upper-Division Writing (https://www.colorado.edu/artsandsciences/sites/default/files/attached-files/as_gen_ed_-_skills-ud_written_communication_courses.pdf) or ENVD 3150

² Upper-Division Humanities (https://www.colorado.edu/artsandsciences/sites/default/files/attached-files/as_gen_ed_-_distribution-arts_humanities_courses1.pdf) (3000/4000-level courses); Upper-Division Social Science (https://www.colorado.edu/artsandsciences/sites/default/files/attached-files/as_gen_ed_-_distribution-social_sciences_courses1.pdf) (3000/4000-level courses)

Sustainable Planning and Design

The sustainable planning and design major examines issues of sustainability and social justice in communities, cities and regions around the world. Heavily centered around community engagement, this major allows students to focus on a variety of topics, such as housing, environmental planning, transportation planning and urban design. Students examine these topics through a combination of design, policy and management perspectives

Course	Title	Credit Hours
Second Year		
Spring Semester		
PLAN 2100	Studio 1: Foundations of Planning and Urban Design	6
ENVD 2001	Human Behavior and Design	3
PLAN 2004	History and Theory of Sustainable Planning and Design	3

Upper Division Writing requirement ³	3
Credit Hours	15

Third Year**Fall Semester**

PLAN 3100	Studio 2: Intermediate Planning and Urban Design	6
PLAN 3005	Process and Practice	3
Upper-Division Arts and Humanities or Social Science requirement ²		3
ENVD elective		3
Credit Hours		15

Spring Semester

Studio (choose one: EPOD 2100, ARCH 2100, LAND 2100 or PLAN 3100)	6	
PLAN 3102	Strategies and Techniques for Sustainable Planning and Design	3
Natural Science requirement (choose one or one pair: ATOC 3600, CHEM 1011, CHEM 1113 + CHEM 1114, EBIO 1030 + EBIO 1050, EBIO 1210 + EBIO 1230, EBIO 1220 + EBIO 1240, EBIO 3590, EBIO 4060, GEOG 1001, GEOG 1011, GEOL 1060, or PHYS 2010)	3-5	
Elective	3	
Credit Hours	15-17	

Fourth Year**Fall Semester**

Specialized Elective (additional studio, minor, non-major related study abroad or electives)	6
Mathematics requirement (choose one: MATH 1081, MATH 1150, MATH 1300, MATH 2380, MATH 2510, SOCY 2061 or PSCI 2075)	3-5
elective	6
Credit Hours	15-17

Spring Semester

PLAN 4100	Capstone in Planning and Urban Design	6
PLAN 4101	Sustainable Futures Planning	3
ENVD elective		3
Elective		3
Credit Hours		15
Total Credit Hours		75-79

¹ Upper-Division Writing (https://www.colorado.edu/artsandsciences/sites/default/files/attached-files/as_gen_ed_-_skills-ud_written_communication_courses.pdf) or ENVD 3150

² Upper-Division Humanities (https://www.colorado.edu/artsandsciences/sites/default/files/attached-files/as_gen_ed_-_distribution-arts_humanities_courses1.pdf) (3000/4000-level courses); Upper-Division Social Science (https://www.colorado.edu/artsandsciences/sites/default/files/attached-files/as_gen_ed_-_distribution-social_sciences_courses1.pdf) (3000/4000-level courses)

Dual Degree Program**BEnvD and a Degree in an Outside Major**

In addition to the BEnvD degree, students may pursue a dual degree at CU Boulder. Past students have received the BEnvD degree concurrently with

undergraduate degrees in one of the other colleges. Typically, specific course requirements do not change in either program of a dual degree. Additional credit hours (varying by college) may be required.

All undergraduate students must complete the general education requirements and the requirements for their specific major within the Program in Environmental Design in addition to the other requirements. Students considering a dual degree program are encouraged to speak with advisors in both units to determine requirements and procedures for application.