ENVIRONMENTAL DESIGN (EVDS)

EVDS 1600 Introduction to Environmental Design 3 cr
An introduction to the philosophies, theories, practices, processes and methods that collectively compose the discipline of Environmental Design. The focus will be on the social, environmental, and technological issues that shape the built environment and on an examination of the challenges and roles facing environmental designers in the contemporary world.
Attributes: Recommended Intro Courses

EVDS 1602 Visual Literacy 3 cr
This course examines the contemporary visual and spatial environment, its critical historical influences and emerging cultural issues. The structure of image and form, the foundations of spatial and visual knowledge and the importance of materiality as they pertain to Environmental Design will be advanced as well as disciplinary appropriate methods of communication.
Attributes: Recommended Intro Courses

EVDS 1660 History of Culture, Ideas and Environment 1 3 cr
Historical survey of key works from the foundations of civilization to the Enlightenment, including interdisciplinary perspectives in art, architecture, interior design, landscape architecture and urban planning considered in the physical, socio-economic, political, artistic and cultural contexts. May not be held with FAAH 1030.
Mutually Exclusive: FAAH 1030

EVDS 1670 History of Culture, Ideas and Environment 2 3 cr
A historical survey of western movements in art, architecture, interior design, landscape architecture and urban planning considered within the physical, socio-economic, political, artistic and cultural context. An introduction to the historical influence of the art, design and culture of non-western traditions will be included. Emphasis is on works created after the Enlightenment. May not be held with FAAH 1040.
PR/CR: A minimum grade of C is required unless otherwise indicated.
Prerequisite: EVDS 1660.
Mutually Exclusive: FAAH 1040

EVDS 1680 Environmental Technology 3 cr
An examination of the scientific principles embodied in the natural laws which govern the science and technology of building, landscape and environmental design in the context of sustainable development. Factors of climate, geology and natural resource systems and their effects upon the built environment at a range of scales are introduced.

EVDS 2100 Urban Media Lab 3 cr
An introduction to visual methods of representation and related media including drawing, photography and video. The intention is to critically engage the urban and suburban contexts as a laboratory for investigating cultural values, aesthetic issues, design principles, and representational techniques, 'prerequisite' to undertaking design studio work. Course evaluated on a pass/fail basis.

EVDS 2200 Ecology and Design 3 cr
An examination of principles of Ecology and Design works in which these tenets are considered, engaged, and/or demonstrated. Topics fundamental to the science of Ecology will structure the course content. Emphasis will be placed on understanding the forces and systems working within and between natural, social and human environments.
PR/CR: A minimum grade of C is required unless otherwise indicated.
Prerequisite: EVDS 2702.

EVDS 2300 Materials, Structures and Assemblies 3 cr
This course provides an introduction to applied statics, construction materials and construction system assemblies for landscape, building, and interior constructions. Construction material properties and applications, including impacts on resource depletion and on sustainable building practices will be introduced along with basic strategies and methods to analyze and calculate forces in simple structures.
PR/CR: A minimum grade of C is required unless otherwise indicated.
Prerequisite: EVDS 1680 (C+).

EVDS 2400 Visual Media 1 3 cr
An introduction to technical and free-hand drawing processes and techniques, and in various media - to develop, to express, and to communicate design intentions. The focus will be directed to abstract and concrete methods of representation. Emphasis will be placed on the integral relationship between thinking, drawing, and making in relation to critically observing the world at large, and in relation to design studio work.
PR/CR: A minimum grade of C is required unless otherwise indicated.
Prerequisite: EVDS 1602 (C+). Corequisite: EVDS 2500.

EVDS 2500 Design Studio 1 6 cr
Introduction to the elements and principles of visual and spatial design, design process and techniques, requisite methods of representation and communication, and design intentions. Studio work will explore different ways of space and form-making, beginning at the site of the body, in both abstract and environmental contexts.
PR/CR: A minimum grade of C is required unless otherwise indicated.
Prerequisite: EVDS 1600 (C+). Corequisite: EVDS 2400.

EVDS 2600 Tectonic Precedent 3 cr
An examination of seminal built works of environmental design, at a range of scales, from the 19th and 20th centuries, with an emphasis on examples that are representative of diverse positions of key issues in contemporary design practice. Methodologically, this course endeavours to critically evaluate the relationships between perception, intention, and making through the exploration of the material and tectonic nature of the work(s).
PR/CR: A minimum grade of C is required unless otherwise indicated.
Prerequisite: EVDS 1670 (C+).

EVDS 2690 Design Since 1800 3 cr
An examination of key architectural treatises of the 19th and 20th centuries that are representative of the predominant ideals of their time and the influence they have had in the construction of the built environment.
PR/CR: A minimum grade of C is required unless otherwise indicated.
Pre-requisite: EVDS 1670.

EVDS 2702 Natural and Human Systems 3 cr
An application of the scientific principles embodied in the natural laws which govern environmental design. Aspects of the bio-physical factors, energy, human physiology and perception, comfort, and resource management are reviewed in the context of sustainable planning and design practices.
PR/CR: A minimum grade of C is required unless otherwise indicated.
Prerequisite: EVDS 1680 (C+).

EVDS 2800 Visual Media 2 3 cr
This course bridges technical and freehand drawing introduced in Visual Media 1, with computer/digital media. This course advances contemporary digital media in relation to emerging modes of 2, 3, and 4 dimensional modes of representation, in the context of design studio work, and in relation to graphic standards associated with professional design practice.
PR/CR: A minimum grade of C is required unless otherwise indicated.
Prerequisite: EVDS 2400. Corequisite: EVDS 2900.

EVDS 2900 Design Studio 2 6 cr
An exploration of the fundamental relationships between space, form and order in the context of the built environment, from body to place. Pedagogical emphasis will be directed towards design process, cultural intentions, and environmental accountability.
PR/CR: A minimum grade of C is required unless otherwise indicated.
Prerequisite: EVDS 2500. Corequisite: EVDS 2800.

EVDS 3250 Advanced Computing in Environmental Design 3 cr
Advanced Computing in Environmental Design builds upon skills obtained in the introductory course. The advanced course provides an opportunity for students to explore detailed applications of computational technologies in design & planning.
PR/CR: A minimum grade of C is required unless otherwise indicated.
Prerequisite: EVDS 2800 or EVDS 2650.

EVDS 3710 Special Topics 3 cr
Independent study related to environmental design. Content may vary according to the interest of the community, students, profession, and the faculty. Written consent of the instructor(s) and program coordinator required.

EVDS 3740 Introduction to AutoCad in Design 3 cr
The course will familiarize the student with the AutoCad program. The course content begins at an introductory level and will progress to a level which will prepare the student for work within a professional office. The course will explore the use of AutoCad for the creation of presentation drawings as well as working drawings.
PR/CR: A minimum grade of C is required unless otherwise indicated.
Prerequisite: EVDS 2800 or ARCH 6370 or written permission of Instructor.

EVDS 3800 Cooperative Education/Integrated Work Term 1 1 cr
Cooperative education/work assignment in practice, business, industry or government for Faculty of Architecture students. Requires submission of a written report and portfolio covering the work completed during each four-month professional assignment. Students participating in the program must have completed at least 85 credit hours towards a university degree prior to placement. Those registering for this course must have applied for and been accepted into the Faculty of Architecture cooperative stream. Course evaluated on a pass/fail basis.

EVDS 3900 Cooperative Education/Integrated Work Term 2 1 cr
Cooperative education/work assignment in practice, business, industry or government for Faculty of Architecture students. Requires submission of a written report and portfolio covering the work completed during each four-month professional assignment. Students participating in the program must have completed at least 85 credit hours towards a university degree prior to placement. Those registering for this course must have applied for and been accepted into the Faculty of Architecture cooperative stream. This course is evaluated on a pass/fail basis.
PR/CR: A minimum grade of C is required unless otherwise indicated.
Prerequisite: EVDS 3800.

EVDS 4800 Cooperative Education/Integrated Work Term 3 1 cr
Cooperative education/work assignment in practice, business, industry or government for Faculty of Architecture students. Requires submission of a written report and portfolio covering the work completed during each four-month professional assignment. Students participating in the program must have completed at least 85 credit hours towards a university degree prior to placement. Those registering for this course must have applied for and been accepted into the Faculty of Architecture cooperative stream. This course is evaluated on a pass/fail basis.
PR/CR: A minimum grade of C is required unless otherwise indicated.
Prerequisite: EVDS 3900.

EVDS 4900 Cooperative Education/Integrated Work Term 4 1 cr
Cooperative education/work assignment in practice, business, industry or government for Faculty of Architecture students. Requires submission of a written report and portfolio covering the work completed during each four-month professional assignment. Students participating in the program must have completed at least 85 credit hours towards a university degree prior to placement. Those registering for this course must have applied for and been accepted into the Faculty of Architecture cooperative stream. This course is evaluated on a pass/fail basis.
PR/CR: A minimum grade of C is required unless otherwise indicated.
Prerequisite: EVDS 4800.