EN DS - ENVIRONMENTAL DESIGN (ENDS)

ENDS 101 Design Process
Credits 3.3 Lecture Hours.
(ARCH 1311) Design Process. Fundamental design processes, issues and theories relevant to design resolution and the creation of new ideas; creative thought processes from the formation of ideas through incubation to final product and future impact on the physical environment and society.

ENDS 105 Design Foundations I
Credits 4.1 Lecture Hour. 8 Lab Hours.
(ARCH 1403) Design Foundations I. Visual and functional design principles; development of skills in perception, thought and craft as they apply to the formation of two- and three-dimensional relationships; design attitudes and environmental awareness.
Prerequisite: Major in environmental design.

ENDS 106 Design Foundations II
Credits 4.1 Lecture Hour. 6 Lab Hours.
Approaches to problem identification and problem solving emphasizing an awareness of human, physical and cultural factors influencing design; reinforcement of visual and verbal communication as applied to the design process.
Prerequisite: ENDS 105.

ENDS 108 Design and Visual Communication Foundations II
Credits 5.1 Lecture Hour. 12 Lab Hours.
Approaches to problem identification and problem solving emphasizing human, physical and cultural factors influencing architectural design; understanding of space, materiality and tectonics in a human body scale; development of drawing methods with emphasis on analytical drawing; reinforcement of visual and verbal communication as applied to design processes.
Prerequisite: ENDS 105 and ENDS 115.

ENDS 114 Introduction to Design Communication
Credits 3.1 Lecture Hour. 4 Lab Hours.
Introduction to drawing methods for non-majors; free hand drawing as a creative and communicative tool to express design thinking, architectural form and space.

ENDS 115 Design Communication Foundations
Credits 3.1 Lecture Hour. 4 Lab Hours.
(ARCH 1307) Design Communication Foundations. Introduction to and practice of tools, methods, techniques available for graphic communication; graphic communication and the design process; observation and other forms of free-hand drawing and drawing systems that develop representational and descriptive capabilities.
Prerequisite: Major in environmental design.

ENDS 116 Design Communication Foundations II
Credits 3.1 Lecture Hour. 4 Lab Hours.
(ARCH 1308) Design Communication Foundations II. Introduction to design drawing using a wide variety of tools ranging from conventional drafting and drawing equipment to the latest digital graphic applications; a focused investigation of analytical drawing as it contributes to the design process; experience of a wide variety of drawing conventions intended to equip students to navigate a design process.
Prerequisites: ENDS 115 and concurrent enrollment in ENDS 106.

ENDS 485 Directed Studies
Credits 1 to 6.1 to 6 Other Hours.
Special problems in environmental design. May be repeated for up to 12 credit hours.
Prerequisite: Approval of instructor and degree coordinator.

ENDS 489 Special Topics in...
Credits 1 to 4.1 to 4 Lecture Hours.
Selected topics in an identified field of environmental design. May be repeated for up to 9 credit hours.
Prerequisite: Approval of instructor or department head.

ENDS 491 Research
Credits 1 to 4.1 to 4 Other Hours.
Research conducted under the direction of faculty member in environmental design. May be repeated 2 times for credit.
Prerequisites: Admission to upper level in environmental design; approval of instructor and department head.