

Class hours: TThu 10:00–12:50
Office hours: MWF 12:30–1:30

Office: Eiben 208
Email: junghwa.suh@chaminade.edu

COURSE DESCRIPTION

EID 202 Introduction to Technical Drawing (3cr)

Introduction to various types of technical drawing, including perspective, axonometric, and field sketching. Emphasis on hand drafting and the knowledge of mechanical drawing tools and techniques used in the field of architecture and interior design. Students will learn to both read and execute construction drawings such as floor plans, elevations, and sections, in order to later apply these skills to translate their own design work.

CLASS FORMAT

Every week, class will begin with a lecture introducing a new drawing type and explanation of techniques, followed by in-class exercises and assignments. All drawings will be done in class but can be completed at home if needed. Each completed drawing will be submitted Monday the following week, before the beginning of the lecture; however, students should keep their trace underlays as these will be necessary for the construction of subsequent drawings. It is imperative to purchase ALL the prescribed materials and tools during the first week of the course, and bring them—as well as your textbook—to EACH class; without these items, you will not be able to participate in the classwork. By the end of the semester, each student will have produced a drawing package that reflects the body of knowledge and skills they have acquired throughout the course.

OBJECTIVES

The purpose of this course is to prepare you to communicate design ideas through the technical language of the architect/interior designer, including how to read and understand construction documents. There are 4 types of technical drawings that will be covered: orthographic, axonometric, perspectival, and freehand, which will include the following skills:

- architectural drawing conventions and symbols
- architectural detail drawings
- electrical and lighting diagrams
- field sketching and documentation
- shadow casting
- furniture and fixture layouts
- dimensioning and noting
- types and schedules

EVALUATION CRITERIA

Students will be evaluated primarily by the drawings they produce—based on accuracy, technical skill, and completeness of drawings—but also on attendance, participation and commitment. Should you have to miss a class, please inform me in advance when possible; you will be responsible to make up the work on your own. Please come prepared and do not be late, as tardiness disrupts the class. All projects must be complete and submitted on time, unless otherwise arranged in advance. Late submissions will be dropped by one letter grade.

GRADING

Your final grade will be weighted as follows:

- Construction drawing package 70%
- Drafting exercises 10%
- Final exam 15%
- Attendance/In-class participation 5%

REQUIRED TEXTS

Architectural Drafting for Interior Designers, Lydia Sloan Cline (any edition)

REQUIRED TOOLS & MATERIALS (* required for next class)

- 18" roll of sketching trace paper *
- Staedtler architectural scale (engraved plastic with colored stripes) *
- 3 mechanical pencils (0.3mm, 0.5mm, 0.7mm) – Staedtler 925 kit *
- lead (2H/0.3mm, HB/0.5mm, 3B/0.7mm) – packages can be shared with other students *
- 18" x 24" pad of unlined vellum paper (at least 20 sheets; packages can be shared)
- hard & gummy erasers or erasing stick *
- erasing shield
- Staedtler adjustable triangle (10")
- drafting tape or dots *
- drafting brush
- circle template
- french curves (optional)
- plumbing fixtures template (elevation & plan views)
- symbols template
- 20'+ tape measure
- drawing canister or tube (w/ strap for easy transport)
- tool case
- protractor

COURSE LEARNING OUTCOMES

Technical Drawing Comprehension

Students will be able to read and comprehend a set of basic construction documents.

PO [2][5] / CIDA [6][13] - EMERGING

Technical Drawing Execution

Students will be able to execute a basic set of construction documents.

PO [2][5] / CIDA [6][13] - EMERGING

Design & Construction Methods

Students will be able to correlate principles of technical drawing to both the process of design and the methods of construction.

PO [2][5] / CIDA [6][13] - EMERGING

EID PROGRAM OUTCOMES

1) Professionalism – understand, apply and participate in ethical design practices on a personal, project, peer and industry-wide level. *(CIDA 2, 3, 4, 5, 6, 7, 8, 11, 12, 13, 14)*

2) Process – ability to identify problems/challenges and demonstrate an understanding of the complete design process from inception to installation, execute documentation supporting design decisions and effect comprehensive, creative, focused and functional design solutions. *(CIDA 4, 6, 9, 10, 11, 12, 13, 14)*

3) Principles & Priorities – integration of pedagogy, research, historic contexts, theory, and interdisciplinary collaboration to effectively and creatively analyze, evaluate and execute best design practices resulting in functional and aesthetically inspiring design. *(CIDA 2, 3, 4, 5, 6, 8, 9, 10, 12, 13, 14)*

4) Public & Environmental Protection – demonstrate an understanding of the concepts, resources and implications of design decisions relative to the human interaction, technological impact and ecological balance of the built environment. *(CIDA 2, 3, 4, 7, 8, 10, 12, 13, 14)*

5) Presentation – demonstrate ability to communicate design concepts and problem solving justifications through written, oral and a variety of visual media. *(CIDA 3, 4, 6, 7, 8, 9, 10, 11, 12, 13, 14)*