

ID 160

Technical Drafting I

3 Credits

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ID 160 Version: 17



Technical Drafting I

Calendar Description

This course focuses on theory and practical exercises in manual drafting techniques. Students are introduced to instrument use, lettering, linework, dimensioning, media types and reproduction techniques. Students will be instructed in the preparation of plan, elevation, section and three dimensional drawings.

Rationale

This is a required course for Interior Design Technology students. Visualization and documentation of ideas is an essential element of the design process. Design communication requires a thorough understanding of technical drafting fundamentals. The study of drafting techniques and equipment application provides the necessary integration of the creative and technical process to accurately communicate ideas.

Prerequisites

None

Co-Requisites

ID 110

Course Learning Outcomes

Upon successful completion of this course, students will be able to

1. use drafting techniques as a communication tool in the professional design practice.
2. read and interpret blueprints.
3. apply basic architectural drafting skills to communicate with technical accuracy.
4. employ basic architectural drafting standards and conventions.
5. produce working drawings by applying the principles of drawing plans, elevations, and sections of buildings.
6. use and maintain manual drafting equipment.

Resource Materials

Required Text:

None

Reference Text:

Kilmer, R. & Kilmer, W. O. (2016). *Construction drawings & details for interiors* (3rd ed.)

John Wiley & Sons, Inc.

Chiavaroli, Jules. (1994). *AEC drafting fundamentals*. St. Paul, MN: West Publishing

Company.

McGowan, MaryRose & Kruse, Kelsey. (2004). *Interior Graphic Standards*. John Wiley &

Sons, Inc.

AIA, Ramsey, S. (2000). *Architectural graphic standards*. Version 3.0. Wiley, Interactive

CD-ROM.

Panero, J. & Zelnik, M. (1979). *Human dimension and interior space*. Watson-Guptill

Publications.

Required Materials:

Each student is to purchase the drafting kit as well as other supplies as required.

Conduct of Course

1. Most of the course material is covered by work during class. The 45 hours are divided into approximately 12 hours of lecture, 30 hours of studio and 3 exam hours.
2. The instructor provides instructional objectives and activity criteria at the beginning of each class. The majority of the course units are covered in the form of practical labs.
3. Each topic is introduced with a lecture, followed by a problem-solving assignment.

4. Active participation in class is expected.
5. Assignments are due when stated. Late assignments will receive a deduction of one grade step per day including weekends. For example, if the assignment warrants a "B", and it is submitted one day late, the recorded grade will be a "B-", two days late, C+ and so on.
6. Students are expected to:
 - let the instructor know if you will be absent.
 - punctuality is required – no student will be admitted after the commencement of class.

Evaluation Procedures

<u>Course Component</u>	<u>Weighting</u>
Assignments	70%
Final Project	25%
Student Performance Evaluation	<u>5%</u>
Total	100%

The student's performance expectations include:

- general improvement of competencies: utilizing previously learned skills.
- class attendance: consistent attendance, consistent punctuality.
- time-management: utilizing class time effectively; completion of assignments on time.
- decision-making: continuous development of confidence in application of skills.
- class participation: asking questions, offering input to discussions, assisting others.

Grade Equivalents and Course Pass Requirements

A minimum grade of C (60%) (2.00) is required to pass this course.

Letter	F	C	C+	B-	B	B+	A-	A	A+
Percent Range	0-59	60-64	65-69	70-74	75-79	80-84	85-89	90-94	95-100
Points	0.00	2.00	2.30	2.70	3.00	3.30	3.70	4.00	4.0

Attendance

Regular attendance is essential for success in any course. Absence for any reason does not relieve a student of the responsibility of completing course work and assignments to the satisfaction of the instructor.

If the total number of unexcused absences exceeds three classes, a student may be required to withdraw from the class and will automatically receive a grade of "RW" (Required to Withdraw) no credit earned. An "RW" is calculated as a failing grade of 0.0 in GPA.

In cases of repeated absences due to illness, the student is requested to submit a medical certificate.

Instructors have the authority to require attendance at classes.

Course Units/Topics

1. Introduction
 - scope of practice
 - equipment use and care
2. Lettering
3. Line Weight & Layout
4. Plans and Elevations
5. Dimensioning
6. Sections
7. Axonometric Drawings
8. Introduction to Working Drawings



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