

**ID260**

**Technical Drafting II**

**3 Credits**

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## **ID260 Version: 14**



# **Technical Drafting II**

## **Calendar Description**

Emphasis in this course is placed on the use of architectural drafting techniques, symbols, and conventions in the development of working drawings. National Kitchen & Bath Association (NKBA) standards and conventions are introduced along with general joinery detailing and an introduction to AutoCAD drawing software.

## **Rationale**

This is a required course for Interior Design Technology students. Working drawings are a communication medium whose purpose is to convey technically the design requirements for a project. They control the design by indicating the construction in detail.

In the production of working drawings, the designer/drafter must assume a large measure of responsibility for accuracy and thoroughness. Errors and omissions are of serious concern.

## **Prerequisites**

ID160

## **Co-Requisites**

ID210, ID235, and ID270

## **Course Learning Outcomes**

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

1. integrate into technical drafting interior design considerations such as various architectural drawing conventions and symbols, the SI metric and Imperial measuring/dimensioning system.
2. read and interpret written directions and dimensions.
3. complete and detail various schedules (e.g. electrical, interior finish, window, door, etc. schedules).
4. demonstrate construction 'measurement-taking' and 'note-taking' skills.
5. distinguish between different wood joinery methods.
6. draw and label various joints commonly used in wood construction.

7. use drafting skills and knowledge of construction techniques to complete-drawings and detailing with speed, accuracy, and technical competency.
8. employ various drafting standards including those of the NKBA.
9. exhibit-introductory level skills in the use of AutoCAD software.

## **Resource Materials**

### ***Required Texts:***

Onstott, S. (2016). *AutoCAD 2017 and AutoCAD LT 2017 essentials*. Hoboken, NJ: Wiley Publishing, Inc.

### ***Reference Texts:***

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

Krohn, M. (2014). *Kitchen & bath design presentation: Drawings, plans, digital rendering* (2nd ed.). Hoboken, NJ: John Wiley & Sons, Inc.

Kilmer, R. & Kilmer, W. O. (2003). *Construction drawings and details for interiors*. Hoboken, NJ: John Wiley & Sons, Inc.

Wilson, T. K. (2011). *Drafting and Design basics for Interior Design*. New York, NY: Fairchild Books.

Jefferis, A. & Madsen, D. A. (2005). *Architectural drafting & design*. (5th ed.). Clifton Park, NY: Thomson Delmar Learning.

Newton, David (2006). *Kitchen & bath drawing*. Irvine, CA: by Fry Communications on behalf of National Kitchen & Bath Association.

Beamish, Julia & Parrott, Kathleen & Emmel, JoAnn & Peterson, Mary Jo. (2006). *Kitchen planning*. Irvine, CA: by Fry Communications on behalf of National Kitchen & Bath Association.

Parrott, Kathleen & Beamish, Julia & Emmel, JoAnn & Peterson, Mary Jo. (2006). *Bath planning*. Irvine, CA: by Fry Communications on behalf of National Kitchen & Bath Association.

Panero, J. & Zelnik, M. (1979). *Human dimension and interior space*. New York, NY: Watson-Guptill Publications.

Kesik, T. J. & Theodore, J. (1998). *Canadian wood-frame house construction* (1st combined imperial / metric ed.). Canada: CMHC.

## Conduct of Course

1. Most of the course material is covered by work during class. The 78 hours are divided into approximately 45 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.
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 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	75%
Final Project	20%
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 D (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	4.00

## 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. Working Drawings
  - review
2. Electrical Plans and Finishing
  - schedules
3. Residential Construction Details
4. NKBA Drafting Standards
5. Kitchens
  - plan and layout
  - cross-sections and details
  - cabinet construction styles
6. Joinery
7. Stairs
8. Introduction to AutoCAD



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