

ID360
Technical Studio I
4 Credits

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Created: 01/12/1989
Revised: 09/11/2018
Approval: 15/11/2018

The Implementation Date for this Outline is 01/09/2018

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ID360 Version: 17



Technical Studio I

Calendar Description

Students apply further architectural drafting practices with emphasis on the design and drafting of interior detail applications and application of the Canadian Building Code in residential interiors culminating in complete working drawings. The National Kitchen and Bath Association guidelines are also applied to drawings. Course work requires use of a computer aided drafting program (CAD) as well as manual techniques.

Rationale

This is a required course for Interior Design Technology students. Working drawings are essential for the execution of a design project. 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

[ID260](#) and [ID270](#)

Co-Requisites

[ID310](#)

Course Learning Outcomes

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

1. use standard drafting practice as applied to architectural and interior design office practice.
2. transition from preliminary floor plans and elevations to construction drawings.
3. complete a set of working drawings in accordance with professional standards and applicable codes.

4. use a computer aided drafting program (AutoCAD), with speed, accuracy and technical competence.
5. use the National Kitchen and Bath Association (NKBA) drafting standards for the working drawings.

Resource Materials

Required Texts:

Onstott, S. (2014). *AutoCAD 2015 and AutoCAD LT 2015 essentials*. Indianapolis, IN: John Wiley & Sons, Inc.

McGowan, M., & Kruse, K. (2004). *Interior graphic standards*. Hoboken, NJ: John Wiley & Sons, Inc.

Reference Texts:

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

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

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

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

National Research Council of Canada. *Alberta building code*. (2014). Ottawa, ON: National Research Council of Canada.

National Research Council of Canada: *National building code*. (2015). Ottawa, ON: National Research Council of Canada.

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

Conduct of Course

1. Most of the course material is covered by work during class. The 120 hours are divided into approximately 60 hours of lecture, 60 hours of studio.
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 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

Assignments	35%
Project I	35%
Project II	25%
Student Performance Evaluation	<u>5%</u>
	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	70-75	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

UNIT	TOPIC	REFERENCE
I.	N.K.B.A. Standards & Techniques	<i>N.K.B.A. Professional Resource Library Handouts</i>
II.	AutoCAD Skills Development	<i>AutoCAD 2015 and AutoCAD LT 2015 Essentials</i>
III.	Office Standards and Techniques	Handouts
	A. Office Standards	
	B. Short-cut Techniques	
	C. Drawing Aids	
	D. Checklists	
IV.	Working Drawing Development	<i>Construction Drawings & Details for Interiors Interior Graphic Standards</i>
	A. Plan Drawings	Chapter 6
	B. Elevations	Chapter 7
	C. Sections	Chapter 8
	D. Details	Chapter 9
	E. Related Schedules	Chapter 10
	F. Millwork, Cabinets & Nomenclature	<i>N.K.B.A Professional Resource Library</i>
	G. Reflected Ceiling & Electrical	Chapter 14
	G. Construction Specifications	<i>N.K.B.A. Professional Resource Library; Handouts</i>



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