

**ID460**

**Technical Studio II**

**4 Credits**

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## **ID460 Version: 13**



## **Technical Studio II**

### **Calendar Description**

The design and detailing of specialized installations, construction and application of the Canadian Building Code in commercial situations is studied in this course. Students prepare design working drawings applying drafting standards. A computer aided drafting program (CAD), a 3-D modeling program and a computer aided kitchen design and rendering program are used.

### **Rationale**

This is a required course for Interior Design Technology students. Making the transition from approved preliminary drawings to construction documents completes the process. Once this transition is made, the production of construction documents can proceed. A thorough understanding of the interpretation of the drawings, details, and specifications that make up the construction document package is necessary.

### **Prerequisites**

ID360 and ID370

### **Co-Requisites**

ID410

### **Course Learning Outcomes**

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

1. produce interior design working drawings for projects of a commercial/contract nature.
2. logically and sequentially document construction projects.
3. explain and appreciate the need for a comprehensive set of details.
4. identify detail requirements for a project and develop a solution and method of approach.
5. detail within certain limitations such as time, building codes, manufacturing limits, etc.
6. select and utilize alternate drafting techniques and reproduction methods.
7. detail and draft with speed, accuracy, and technical competence.
8. use a computer aided drafting program (CAD) as a drafting tool.

## Resource Materials

### **Required Text:**

Onstott, S. (2014). *AutoCAD 2015 and AutoCAD LT 2015 Essentials*. Hoboken, NJ: Wiley Publishing, Inc.

### **Required Materials:**

Students are to purchase a drafting kit and other supplies as required.

### **Reference Texts:**

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

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

Dix, M. & Riley, P. (2012). *Discovering AutoCAD 2012*. Upper Saddle River, NJ: Pearson Education, Inc.

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

Richard, P. & Fitzgerald, J. (2012). *Introduction to AutoCAD 2012 A Modern Perspective*. Upper Saddle River, NJ: Pearson Education, Inc.

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.

## 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 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

Class assignments & exercises	20%
Projects	75%
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	4.00

## 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. CAD Principles

- continuation of CAD practices and procedures
- introduction of advanced CAD drawing and editing procedures

### 2. Architectural and Interior Design Detailing

- principles of interior detailing
- Interior Detail Requirements

### 3. Interior Construction Drawings

- contents of construction drawings
  - plans
  - elevations
  - sections
  - details
  - schedules
- coordination with consultants



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