

SAULT STE. MARIE, ON  
SAULT COLLEGE OF APPLIED ARTS AND TECHNOLOGY

COURSE OUTLINE

COURSE TITLE: BUILDING CODES & PRACTICES

CODE NO : ARC 125 SEMESTER: I

PROGRAM: ARCHITECTURAL TECHNICIAN

AUTHOR: H. PIETRZAKOWSKI

DATE: \_\_\_\_\_ PREVIOUS OUTLINE DATED: \_\_\_\_\_

APPROVED: *P. Blazynski*  
DEAN

94-08-29  
DATE

*M. Chou*  
*Aug 29/94*

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**BUILDING CODES & PRACTICES**  
COURSE NAME

**ARC 125**  
COURSE CODE

**TOTAL CREDITS:** 4

**PREREQUISITE(S):** None

**I. PHILOSOPHY/GOALS:**

This course will introduce the student to the regulations and codes governing the design and construction of architectural and engineering projects. Emphasis will be placed on both Federal / Provincial Codes and Municipal Zoning By-Laws.

**II. STUDENT PERFORMANCE OBJECTIVES (OUTCOMES):**

Upon successful completion of this course the student will:

- 1) Identify the scope and intent of the "Provincial Building Code".
- 2) Identify the scope and intent of "Municipal Codes"
- 3) Define and describe common guidelines associated with building dimensions and allowable construction practices.
- 4) Identify the different building occupancy types, the special requirements for a specific occupancy type, and the preparation of code reviews / checks for given projects in the various stages of design.
- 5) Identify the parameters associated with Barrier Free Design.
- 6) Classify construction according to the relevant fire resistant nature of appropriate building materials.

**III. TOPICS TO BE COVERED:**

- 1) Introduction to the Ontario Building Code
- 2) The Municipal Zoning By-Law (By-Law 4500)
- 3) Part 9 of the O.B.C.
- 4) Part 3 of the O.B.C.
- 5) Barrier Free Design
- 6) Fire Protection

**IV. LEARNING ACTIVITIES/REQUIRED RESOURCES**

**1. Introduction to the Ontario Building Code**

**Learning Activities:** In class instruction and practical exercises on:

- Historical precedants and evolution
- National Building Code
- Organizational Framework
- Terminology and Basic Principles

**Resources:** O.B.C. - Part 1 & 2  
Handouts and overheads

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**2. The Municipal Zoning By-Law**

**Learning Activities:** In class instruction and practical exercises on:

- Terms and definitions
- Organizational Framework
- Conformity Requirements
- Standard Zone Regulations
- Zoning Map Indexes
- Parking Regulations

**Resources:** Handouts, overheads and demonstrations

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**3. Part 9 : O.B.C.**

**Learning Activities:** In class instruction, practical exercises and assignments on:

- Room and Space Dimensions
- Doors and Windows
- Stairs, Ramps, Handrails & Guards
- Means of Egress
- Fire Protection
- Sound Control
- Building Construction (Specific)

**Resources:** O.B.C. - Part 9  
Chapters 7,8,9 - Architecture: Design, Engineering, Drawing

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4. **Part 3 : O.B.C.**

**Learning Activities:** In class instruction, practical exercises and assignments on:  
- Principles of Occupancy Type Classifications  
- Types of Occupant Load  
- Multiple Occupancy Requirements  
- Combustible/Non-Combustible Construction

**Resources:** O.B.C. : Part 3  
Chapter 23 - Architecture: Design, Engineering, Drawing  
Metric Design Manual  
Handouts and overheads

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5. **Barrier Free Design**

**Learning Activities:** In class instruction, practical exercises and assignments on:  
- Occupancy Requirements  
- Design Standards  
- Signage  
- Additional Requirements

**Resources:** O.B.C. : Part 3  
Metric Design Manual  
Handouts and overheads

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6. **Fire Protection**

**Learning Activities:** In class instruction, practical exercises and assignments on:  
- Fire Resistance Ratings  
- Fire Separations and Closures  
- Flame Spread Ratings  
- Size & Occupancy Requirements for Fire Safety  
- Exiting Requirements

**Resources:** O.B.C. : Part 3  
Handouts and overheads

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V. **EVALUATION METHODS: (INCLUDES ASSIGNMENTS, ATTENDANCE REQUIREMENTS, ETC.)**

A final grade will be derived as follows:

Attendance	10%
Assignments	30%
Midterm Test	25%
Final Test	35%
Total	100%

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The grading system used will be as follows:

A+	90% - 100%
A	80% - 89%
B	70% - 79%
C	55% - 69%
R	Repeat

- 1) Assignments will be collected on dates specified and will not only be graded for correct solutions, but will also be checked for neatness and layout of work. Late Assignments will not be accepted.
- 2) Minimum acceptable grade for this course is 55%.
- 3) If at the end of the semester the overall mark is below 55%, then it will be up to the instructor whether or not a rewrite test will be granted. The criteria employed for arriving at that decision is class attendance, class participation and overall grade, which should be at least 45%.
- 4) In the case a rewrite is granted, it will be permitted only once, it will cover the entire course outline and will limit the maximum obtainable grade for the course to 60%.

**VII. REQUIRED STUDENT RESOURCES**

Required Text      Ontario Building Code (1990)

**VIII. SPECIAL NOTES**

Students with special needs (eg. physical limitations, visual impairments, hearing impairments, learning disabilities) are encouraged to discuss required accommodations confidentially with the instructor.

Your instructor reserves the right to modify the course as he/she deems necessary to meet the needs of students.