

SAULT COLLEGE OF APPLIED ARTS AND TECHNOLOGY

SAULT STE. MARIE, ONTARIO



COURSE OUTLINE

COURSE TITLE: CODES AND CONSTRUCTION PRACTICES

CODE NO. : CON 208 **SEMESTER:** III

PROGRAM: Construction \ Architectural

AUTHOR: B. Sparrow/H. Pietrzakowski

DATE: Aug. 05 **PREVIOUS OUTLINE DATED:** Aug. 03

APPROVED:

	DEAN	DATE
TOTAL CREDITS: 3		
PREREQUISITE(S): None		
LENGTH OF COURSE: 15 weeks	TOTAL CREDIT HOURS: 45	

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For additional information, please contact C. Kirkwood, Dean
School of Technology, Skilled Trades & Natural Resources & Business
(705) 759-2554, Ext 2688

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Code No.**I. COURSE DESCRIPTION:**

The intent of this course is to provide the student with knowledge and understanding of the codes, laws and regulations relative to construction projects. The course also examines performance of work according to codes, standard practices and contract documents. Quality issues, health and safety, and the effective supervision of construction projects will also be examined.

II. LEARNING OUTCOMES AND ELEMENTS OF THE PERFORMANCE:

Upon successful completion of this course, the student will demonstrate the ability to:

1. Understand and interpret municipal by-laws.

Potential Elements of the Performance:

- Understand the organization and purpose of zoning by-laws
- Determine the buildable area for a given site using by-law 4500
- Distinguish between minor variance and rezoning
- Understand the purpose and organization of the municipal planning and building divisions

2. Interpret and apply the Ontario Building Code Part 9

Potential Elements of the Performance:

- Discuss the organization of the OBC
- Perform a Part 9 code review for a given building
- Utilize the code appendices applicable to Part 9
- Identify agency standards and describe their application in construction

3. Interpret and apply the Ontario Building Code Part 3

Potential Elements of the Performance:

- Discuss the application of Part 3 of the OBC
- Perform a Part 3 code review for a given building
- Define and calculate limiting distance using the OBC

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4. Recognize health and safety issues and regulations on construction sites

Potential Elements of the Performance:

- List the organizations involved in construction safety
- Identify hazardous conditions and propose remedies
- Understand the scope and application of health and safety regulation

5. Discuss issues relating to human resource management in construction

Potential Elements of the Performance:

- Demonstrate knowledge of labour laws
- Describe employer/employee obligations
- Discuss management of personnel in construction
- Examine issues of human resource allocation
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6. Describe methods of construction project reporting and communication

Potential Elements of the Performance:

- Discuss the importance of appropriate communication
- Review methods for conducting a construction site meeting
- Describe procedures for maintaining project records and documentation
- List methods of effective site supervision
- Identify methods of dispute resolution
- Discuss quality management issues

III. TOPICS:

1. Municipal by-laws and regulation
2. Ontario Building Code
3. Ontario Building Code Part 9
4. Ontario Building Code Part 3
5. Health and Safety in Construction

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- 6. Human Resource Management in Construction
- 7. Effective Site Supervision Procedures
- 6. Quality Management in Construction

IV. REQUIRED RESOURCES/TEXTS/MATERIALS:

Ontario Building Code with Supplementary Guidelines.

V. EVALUATION PROCESS/GRADING SYSTEM:

You will be assigned a final grade on successful completion of laboratories assignments, and tests, weighted as follows:

Laboratories/Assignments	40%
Three tests of equal weight	<u>60%</u>
TOTAL	100%

Each laboratory or assignment carries equal weight. Late submittals receive only a maximum grade of 60%. However, laboratories or assignments handed in later than one week will receive a grade of 0.

An average of 60% on laboratories/assignments and 60% on tests is required for successful completion of this course.

The following semester grades will be assigned to students in postsecondary courses:

<u>Grade</u>	<u>Definition</u>	<u>Grade Point Equivalent</u>
A+	90 - 100%	4.00
A	80 - 89%	4.00
B	70 - 79%	3.00
C	60 - 69%	2.00
D	50-59%	1.00
F (Fail)	59% or below	0.00
CR (Credit)	Credit for diploma requirements has been awarded.	
S	Satisfactory achievement in field placement or non-graded subject areas.	
U	Unsatisfactory achievement in field placement or non-graded subject areas.	

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X	A temporary grade. This is used in limited situations with extenuating circumstances giving a student additional time to complete the requirements for a course (see <i>Policies & Procedures Manual – Deferred Grades and Make-up</i>).
NR	Grade not reported to Registrar's office. This is used to facilitate transcript preparation when, for extenuating circumstances, it has been impossible for the faculty member to report grades.
W	Student has withdrawn from the course without academic penalty.

VI. SPECIAL NOTES:

Special Needs:

If you are a student with special needs (e.g. physical limitations, visual impairments, hearing impairments, or learning disabilities), you are encouraged to discuss required accommodations with your instructor and/or the Special Needs office. Visit Room E1204 or call Extension 493 so that support services can be arranged for you.

Retention of course outlines:

It is the responsibility of the student to retain all course outlines for possible future use in acquiring advanced standing at other postsecondary institutions.

Plagiarism

Students should refer to the definition of “academic dishonesty” in *Student Rights and Responsibilities*. Students who engage in “academic dishonesty” will receive an automatic failure for that submission and/or such other penalty, up to and including expulsion from the course, as may be decided by the professor. In order to protect students from inadvertent plagiarism, to protect the copyright of the material referenced, and to credit the author of the material, it is the policy of the department to employ a documentation format for referencing source material.

The Professor reserves the right to change the information contained in this course outline depending on the needs of the learner and the availability of resources.

Substitute course information is available in the Registrar's office.

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Testing Absence

If a student is unable to write a test on the date assigned, the following procedure is required:

- The student shall provide the Professor with advance notice preferably in writing of his/her need to miss the test.
- The student may be required to document the absence at the discretion of the Professor.
- All decisions regarding whether tests shall be re-scheduled will be at the discretion of the Professor.
- The student is responsible to make arrangements, immediately upon return to the College with his/her course Professor related to make-up of the missed test prior to the next scheduled class for the course in question.
- In the event of an emergency on the day of the test, the student may require documentation to support the absence and must telephone the College to identify the absence. The college has a 24 hour electronic voice mail system (759-2554)

VII. PRIOR LEARNING ASSESSMENT:

Students who wish to apply for advanced credit in the course should consult the instructor. Credit for prior learning will be given upon successful completion of the following:

VIII. DIRECT CREDIT TRANSFERS:

Students who wish to apply for direct credit transfer (advanced standing) should obtain a direct credit transfer form from the Dean's secretary. Students will be required to provide a transcript and course outline related to the course in question.