

**SAULT COLLEGE OF APPLIED ARTS & TECHNOLOGY**  
**SAULT STE MARIE, ON**



**COURSE OUTLINE**

**Course Title: Project Management and Environmental Law**

**Code No.: Civ215/Env315**

**Semester: 98W**

**Program: Civil/Environmental/Water**

**Author: Barry Sparrow**

**Date: 5 January 98**

**Previous Outline Date: New**

**Approved:**

K. DeRosario  
**Dean**

Jan. 6 / 98  
**Date**

**Total Credits: 3**

**Prerequisite(s): None**

**Length of Course: 15 Weeks**

**Total Credit Hours: 3**

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For additional information, please contact Kitty DeRosario, Dean, School of Trades  
& Technology Studies, (705) 759-2554, Ext. 642.

## I. COURSE DESCRIPTION:

This course will provide the technical student with a general understanding of construction management principles and contract law, as well as knowledge of environmental laws and regulations which have an impact on construction projects.

## II. LEARNING OUTCOMES AND ELEMENTS OF THE PERFORMANCE:

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

- 1) Apply planning and scheduling principles to construction projects

**Potential Elements of the Performance:**

- discuss the history of project management
- list project goals and aspirations
- describe basic project management philosophies
- describe the basic need for and principles of scheduling
- construct a bar graph schedule for an assigned problem
- construct a critical path schedule for an assigned problem

- 2) Identify the various types of contracts and contractual relationships that exist within a construction project

**Potential Elements of the Performance:**

- describe the common terms and definitions used in contracts
- discuss the roles of the client, architect, engineer, contractor, and contract manager
- list and describe the basic contract documents, plans and specifications
- describe different types of contracts
- discuss the rules of interpreting a contract
- discuss the conditions for the legal termination of a contract

- 3) Describe the process of contract administration

**Potential Elements of the Performance:**

- describe the process of payment certification
- discuss the effects of changes and delays
- discuss contract litigation
- describe legal aspects of contract administration and recourse, including the Builders' Lien Act

- 4) Describe the contract bidding procedure

**Potential Elements of the Performance :**

- describe competitive bidding, bid bonding, bid depositories, and bidding procedures



## II. LEARNING OUTCOMES AND ELEMENTS OF THE PERFORMANCE

(Continued)

- 5) Describe key elements of Ontario's environmental legislation

### Potential Elements of the Performance:

- describe the purpose of environmental laws and regulations
- identify relevant provincial legislation applicable to a given problem
- explain, in detail, the application of the Ontario Environmental Protection Act and the Ontario Water Resources Act to a construction project
- explain the difference between an act and a regulation identify and interpret regulations pertinent to an assigned problem
- define and describe methods of demonstrating due diligence describe the normal route of license applications

## III. TOPICS:

- 1) The Project Environment
- 2) The Parties Involved
- 3) Planning and Scheduling
- 4) Construction Contracts
- 5) Contract Administration
- 6) Contract Bidding Procedures
- 7) Ontario Environmental Legislation and Regulations

## IV. REQUIRED RESOURCES/TEXTS/MATERIALS:

Keith Collier: Managing Construction - The Contractual Viewpoint  
Delmar Publishers Inc.

Ontario Environmental Protection Act

Ontario Water Resources Act

## V. EVALUATION PROCESS/GRADING SYSTEM

The final course grade will be determined as follows:

Project	15%
Assignments and Quizzes	25%
Midterm Test	25%
Final Exam	35%

A letter grade will be assigned based on the total score:

A+	90 - 100%
A	80 - 89%
B	70 - 79%
C	60 - 69%
R	below 60%

Due dates will be specified for all assignments and the project. Material which is submitted late will receive a 'C' grade.

Submissions which are more than 7 calendar days late will be given a grade of 0 (zero) but must still be submitted if the student is to receive credit for the course.

Attendance at all quizzes, test and exam is mandatory. If a student must miss a test due to illness or family emergency, he/she must contact the instructor before the scheduled time of the test so that alternate arrangements can be made. It is the student's responsibility to have medical proof of illness, etc. if it is so requested.

## VI. SPECIAL NOTES:

### Special Needs

If you are a student with special needs (eg. physical limitations, visual impairments, hearing impairments, learning disabilities), you are encouraged to discuss required accommodations with the instructor and/or contact the Special Needs Office, Room E1204, Ext. 493, 717, 491 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 post-secondary institutions.

### Disclaimer for Meeting the Needs of the Learners

Your instructor reserves the right to modify the course outline as deemed necessary to meet the needs of students

Substitute Course Information is available at the Registrar's Office.

## VII. PRIOR LEARNING ASSESSMENT

Students who wish to apply for advanced credit in the course should consult the instructor.