

SAULT COLLEGE OF APPLIED ARTS & TECHNOLOGY
SAULT STE. MARIE, ONTARIO

COURSE OUTLINE

Course Title: CONSTRUCTION MATERIALS I

Code No.: ARC 133-3

Program: CIVIL/CONSTRUCTION

Semester: TWO

Date: JANUARY, 1987

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New: _____ Revision: X

APPROVED: *J.P. Crozitto*
Chairperson

_____ Date

CALENDAR DESCRIPTION

CONSTRUCTION MATERIALS I

ARC 133-3

Course Name

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PHILOSOPHY/GOALS:

1. The student should develop an appreciation of the importance of quantifying the various properties of construction material and should always express an evaluation of such materials in a numerical form.
2. The student should understand what is universally known as the "scientific method" and should endeavour at all times to conduct his/her technical activities in such a manner.
3. The student should develop an commercial sense in appraising and evaluating construction materials.
4. The student should develop the ability to work independently in a technical situation.
5. The student must learn to express technical data clearly and concisely in both a verbal and written form.

METHOD OF ASSESSMENT (GRADING METHOD):

Laboratory Investigations:

1. Density Measurement	10%
2. Compressive Strength of Timber	10%
3. Fineness of Portland Cement	10%
4. Setting time of Portland Cement	10%
5. Compressive Strength of Portland Cement	10%
6. Aggregate Analysis	10%
7. concrete Mix Design and Test	20%
8. Penetration Asphalt	10%
9. Soil Description	10%
	<u>100%</u>

The above list is a minimum requirement. Students will be encouraged to carry out additional investigations. Regular attendance is essential for success.