

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

COURSE OUTLINE

Course Title:	HEAVY CONSTRUCTION	Assignments 30%
Code No.:	ARC 232-4	Final Examination 40%
Program:	CIVIL CONSTRUCTION	A+ 90 - 100
Semester:	IV	s 70 - 79 c ' 55 - 69
Date:	JANUARY, 1988	x A temporary grade, limi extenuating circumstance extenuating circumstance
Author:	S. IENCO	of the course.
of the combined nester examination at her you receive arriving at that and overall grade	New:	Revision: X
APPROVED:	M ~ Sn/	March 8/88

CALENDAR DESCRIPTION

HEAVY CONSTRUCTION

ARC 232-4

COURSE NAME

COURSE NUMBER

PHILOSOPHY/GOALS:

To further the student's understanding of the wide variety of techniques that go to form a heavy civil engineering project.

METHOD OF ASSESSMENT:

Assignments	30%
Mid Term Examination	n 30%
Final Examination	40%
	1009

A+ 90 - 100

A 80 - 89

B 70 - 79

C 55 - 69

R Repeat

- X A temporary grade, limited to situations with extenuating circumstances, giving a student additional time to complete the requirements of the course.
- 1. Minimum acceptable grade is 55%
- 2. Each assignment will carry equal weight
- If at the end of the semester your overall average of the combined assignments, mid semester examination and final semester examination is below 55%, then it will be up to the instructor whether you receive an "R" grade or a rewrite. The criteria employed for arriving at that decision in class attendance, class participation and overall grade.
- 4. If a rewrite is granted it will cover the entire semester course work and the maximum obtainable grade on the rewrite is a "C".

TEXTBOOK(S):

Construction Methods and Management, Nunally

TOPIC NO.	MOITELESCE OF TOPIC DESCRIPTION
1	Cement & Concrete Technology Review
	physical properties of cement and concrete
2	Formwork
	 properties of concrete in the plastic state properties of formwork material design tables for timber forms shoring and scaffold causes of failure
3	Concrete Construction
	<pre>.simple and double reinforced beams .columns .floors .precast concrete .prestressing</pre>
4	Structural Steelwork
	<pre>.post and beam .trusses .rigid frame .fasteners .welding</pre>
5	Foundations
	<pre>.types of footings .earth pressures .timber, steel and concrete piles .bearing piles .sheet piling</pre>
6	Earthmoving
	<pre>.earthmoving equipment .clearing and grubbing .excavations .compaction .soil volume-change characteristics</pre>

TOPIC NO.

TOPIC DESCRIPTION

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Construction Safety

- .The Construction Safety Act
 - .trenching

Structural Steelwork

.access structures