CIV-220-4 DOC. #401

SAULT COLLEGE OF APPLIED ARTS AND TECHNOLOGY

SAULT STE. MARIE, ON

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COURSE OUTLINE

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AUTHOR:	KEN WALLENI	US/RS	120	cional Be Aspects Escavat	Safety Safety	(3
DATE: January	16, 1991	PREVIOUS	OUTLINE DATE	D:	NEW	
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COURSE NAME: CONSTRUCTION TECHNOLOGY CODE NO. CIV 220-4

TOTAL CREDIT HOURS: 45

5-00C-27D

PREREOUISITE(S):

I. PHILOSOPHY/GOALS:

The objective of this course is to enable the student to plan and schedule all works on a construction project and to ensure that construction methods are carried out safely and according to proper design.

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II. STUDENT PERFORMANCE OBJECTIVES:

Upon successful completion of this course the student will:

- Describe in detail relevant sections of the Occupational Health and Safety Regulations.
- 2) Describe foundation system and excavation stabilization.
- 3) Design concrete formwork.
- 4) Calculate wind loading.
- 5) Prepare a construction schedule.
- 6) Describe various construction methods.

III. TOPICS TO BE COVERED:

- 1) Occupational Health and Safety Act.
- 2) Safety Aspects of:
 - a) Excavations
 - b) Concrete Formwork
 - c) Windloading in Masonry Walls
 - d) Crane Loads
 - e) Blasting
- 3) Planning and Scheduling.
- 4) Highway Construction Methods.
- 5) Building Construction Methods using:
 - a) Concrete and Reinforced Concrete
 - b) Wood
 - c) Steel
 - d) Masonry

TOPIC DESCRIPTION

TOPIC	NUMBER		TOPIC DESCRIPTION			REFERENCE
1		-	Discussion of course outline: general objectives, evaluation methods, attendance requiremen	1		GOVERNMENT PUBLICATIONS SPEAKER?
		-	Development process.			TEXT CHAPTER
		-	Occupational Health and Safety Act and regulation.			
2	2	-	Slope stability and protecting excavation.	-	Ch.	9. 200-219
		-	Design of concrete formwork.	-	Ch.	11
		-	Windload on masonry walls.	-	Ch.	14 pgs. 347-352
		-	Crane loads and characteristics.	-	Ch.	3 PGS. 49-55
		-	Blasting.	-	Ch.	6 pgs. 131-137
3	3	-	Planning and scheduling.	-	Ch.	15
4	1	-	Soil characteristics.	-	Ch.	2
		-	Equipment used for road construction.		_	Ch. 3 and 4
		-	Compaction.	-	Ch.	5
		-	Rock excavation.	-	Ch.	6
5	5	-	Concrete construction including steel reinforcing.		-	Ch. 10
		-	Wood construction.	-	Ch.	12
		-	Steel construction.	-	Ch.	13
		-	Masonry construction.	-	Ch.	14

IV.	LEARNING ACTIV	TIES I	REQUIRED	RESOURCES	
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COURSE NAME

CODE NO.

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

A final grade will be derived as follows:

The grading system will be as follows:

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

- 1. Tests will be given at mid-session and at final session.
- 2. Full attendance expected unless excused absence.

VI. REQUIRED STUDENT RESOURCES

TEXTBOOK(S):

Construction Methods and Management, S. W. Nunally,

VII. SPECIAL NOTES

Students with special needs (e.g. 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 the student.