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DOC. #678

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

COURSE OUTLINE

Course Title: DRAFTING
Code No.: ARC 110
Program: CIVIL ENGINEERING TECHNICIAN
Semester: I
Date: JUNE 1989
Author: S. IENCO

New: _____ Revision: X

APPROVED:

L. Crozatto
Chairperson

90/09/05
Date

CALENDAR DESCRIPTION

DRAFTING

ARC 110

COURSE NAME

COURSE NUMBER

PHILOSOPHY/GOALS:

This course is designed to familiarize the student in the basics of drafting, to make the student proficient in linework, lettering and accuracy upon completion he/she will be able to do the work shown in the course outline.

METHOD OF ASSESSMENT: (GRADING METHOD):

The final grade will be based on the assignments average.

A+	93% - 100%
A	83% - 92%
B	70% - 82%
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 60%.
- 2) Each assignment will carry equal weight. Late submissions will be penalized with a loss of 20% for the first day late and an additional 10% for each subsequent late day.
- 3) Attendance, lateness and attitude will be considered in assessment.

TEXTBOOK(S):

Fundamentals of Engineering Drawing - Luzadder

Drafting Equipment

DRAFTING

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COURSE NAME

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TOPIC NO. TOPIC DESCRIPTION REFERENCES

1. Basics
- 1. Design Steps
 - 2. Drawing
 - 3. Instruments
 - 4. Scales
 - 5. Types of Drawings

2. Drawing
- 1. Geometric
 - 2. Orthographic
 - 3. Pictorial

3. Sections
- 1. Full and Half
 - 2. Offset, revolved
 - 3. Removed Broken Out
 - 4. Aligned

4. Inking
- 1. Types
 - 2. Equipment
 - 3. Use of Equipment
 - 4. Inking Project

5. Intersections & Layout
- 1. Pipes
 - 2. Cones
 - 3. Pyramids

DRAFTING

ARC 110

COURSE NAME

COURSE NUMBER

CIVIL ENGINEERING TECHNICIAN 1

PERFORMANCE OBJECTIVES FOR DRAFTING

1. To identify steps in design.
2. To identify types of drawings.
3. To identify and use drafting instruments.
4. To learn and apply proper lettering techniques.
5. To identify and construct various geometric construction.
6. To identify orthographic projection.
7. To draw orthographic projections.
8. To identify pictorial drawings.
9. To draw isometric shapes.
10. To draw oblique shapes in cabinet and cavalier.
11. To draw circular contours in isometric.
12. To identify techniques of dimensioning.
13. To identify sections.
14. To draw sections of various shapes.
15. To identify working drawing.
16. To draw an object of parts on a working drawing.
17. To identify and become proficient in inking equipment.
18. To make an ink drawing using lettering equipment on different drafting materials.
19. To develop and layout straight and truncated pipes.
20. To develop and layout cones and truncated cones.
21. To develop and layout pyramids and truncated pyramids.