

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, 1987

Author: G. FRECH

New: _____ Revision: ^X _____

APPROVED: *J.P. Crozitto*
Chairperson

87-05-22
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):

A - 86 - 100%

B - 70 - 85%

C - 55 - 69%

R - Repeat

X - work to be made up under special circumstances.

- Marks will be accumulated and averaged using assignments and tests.
- Assignments will be handed in by due date otherwise loss of marks will result or a new assignment issued.
- Attendance, lateness and attitude will be considered in assessment.

TEXTBOOK(S):

Fundamentals of Engineering Drawing - Luzadder

Drafting Equipment

| TOPIC NO. | PERIODS | TOPIC DESCRIPTION | REFERENCES |
|-----------|---------|---|------------|
| 1. | 6 | <u>Basics</u> 1. Design Steps 2. Drawing 3. Instruments 4. Scales 5. Types of Drawings | |
| 2. | 16 | <u>Drawing</u> 1. Geometric 2. Orthographic 3. Pictorial | |
| 3. | 16 | <u>Sections</u> 1. Full and Half 2. Offset, revolved 3. Removed Broken Out 4. Aligned | |
| 4. | 16 | <u>Inking</u> 1. Types 2. Equipment 3. Use of Equipment 4. Inking Project | |
| 5. | 8 | <u>Intersections & Layout</u> 1. Pipes 2. Cones 3. Pyramids | |

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.