

SAULT COLLEGE OF APPLIED ARTS AND TECHNOLOGY

SAULT STE. MARIE, ONTARIO



**SAULT
COLLEGE**

COURSE OUTLINE

COURSE TITLE: DRAFTING AND BLUEPRINT READING

CODE NO. : DRF120 **SEMESTER:** ONE

PROGRAM: PRE TRADES and TECHNOLOGY

AUTHOR: Karol Uchmanowicz

DATE: September 2011 **PREVIOUS OUTLINE DATED:** Sept 2010

APPROVED: "Corey Meunier"

CHAIR

DATE

TOTAL CREDITS: TWO

PREREQUISITE(S):

HOURS/WEEK: TWO

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For additional information, please contact Corey Meunier, Chair
Technology and Skilled Trades
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I. COURSE DESCRIPTION:

The tradesperson is often required to receive and transfer technical information. Drawings, free hand sketches, schematics and flow diagrams are forms of this information transfer. This introductory course will expose the student to these methods of information transfer by drawing objects using standard drafting techniques, making complete neat free hand sketches, extracting information from various construction drawings.

II. LEARNING OUTCOMES AND ELEMENTS OF THE PERFORMANCE:

Upon successful completion of this course, the student will demonstrate the ability to:

1. *Drawing Instruments*Potential Elements of the Performance:

- With assorted problems learn the proper use of drafting instrument

2. *Orthographic*Potential Elements of the Performance:

- Discuss when single view or multi – view orthographic are required.
- Sketch free hand assorted orthographic drawings
- Draw, with instruments assorted orthographic drawings
- Transfer surfaces
- Add missing views
- Finish incomplete views
- Apply proper dimension techniques

3. *Isometrics*Potential Elements of the Performance:

- Understand the advantages of isometric drawings
- Sketch freehand isometric views
- Draw isometric views to scale

4. *Residential buildings*Potential Elements of the Performance:

- With a set of house plans complete an isometric drawing of one room
- Calculate various amounts of building materials required
- With excerpts of the buildings codes understand why certain construction techniques are used

5. Commercial buildingsPotential Elements of the Performance:

- Using commercial drawings answer varied questions pertaining to the trades involved in the construction process.

6. Industrial applicationsPotential Elements of the Performance:

- Using industrial drawings, schematics and flow diagrams answer varied questions pertaining to the trades involved in construction and maintenance.

III. TOPICS:

1. INSTRUMENTS
2. ORTHOGRAPHICS
3. ISOMETRICS
4. RESIDENTIAL
5. COMMERCIAL
6. INDUSTRIAL

IV. REQUIRED RESOURCES/TEXTS/MATERIALS:

Blueprint Reading for the Construction Trades
(to come with blueprints), Micro-Press (2nd ed.)

Drafting Kit for DRF120 available in Campus Book Store

V. EVALUATION PROCESS/GRADING SYSTEM:

Three term tests	90%
Assignments	10%
Total	100%

**Attendance will be taken and considered
when final grades are issued**

The following semester grades will be assigned to students:

Grade	<u>Definition</u>	<i>Grade Point Equivalent</i>
A+	90 – 100%	4.00
A	80 – 89%	4.00
B	70 - 79%	3.00
C	60 - 69%	2.00
D	50 – 59%	1.00
F (Fail)	49% and below	0.00
CR (Credit)	Credit for diploma requirements has been awarded.	
S	Satisfactory achievement in field /clinical placement or non-graded subject area.	
U	Unsatisfactory achievement in field/clinical placement or non-graded subject area.	
X	A temporary grade limited to situations with extenuating circumstances giving a student additional time to complete the requirements for a course.	
NR	Grade not reported to Registrar's office.	
W	Student has withdrawn from the course without academic penalty.	

VI. SPECIAL NOTES:

Attendance:

Sault College is committed to student success. There is a direct correlation between academic performance and class attendance; therefore, for the benefit of all its constituents, all students are encouraged to attend all of their scheduled learning and evaluation sessions. This implies arriving on time and remaining for the duration of the scheduled session.

VII. COURSE OUTLINE ADDENDUM:

The provisions contained in the addendum located on the portal form part of this course outline.