

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:** 1

PROGRAM: PRE TRADES and TECHNOLOGY

AUTHOR: Karol Uchmanowicz

DATE: Sept 08 **PREVIOUS OUTLINE DATED:** NA

APPROVED:
"Corey Meunier"
CHAIR
Sep 16 08
DATE

TOTAL CREDITS: Two

PREREQUISITE(S):

HOURS/WEEK: Two

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For additional information, please contact Corey Meunier, Chair
School of the Natural Environment, Technology and Skilled Trades
(705) 759-2554, Ext. 2610

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 buildings*Potential 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 including: Not necessarily “Staedtler” brand.

- Staedtler Circle Template No. 977101
- Staedtler Protractor No. 568-52-15
- Staedtler Plastic Drafting Bag
- Staedtler Mars 964 08-45 Set Square
- Staedtler Mars 964 10-60 Set Square
- Staedtler 987 18-31 Architect Scale
- Staedtler 987 18-SI Scale
- Staedtler Mars 97051-75 30 inch

T-Square (plastic) & Erasing Shield

V. EVALUATION PROCESS/GRADING SYSTEM:

Three term tests	90%
Assignments	10%
Total	100%

Note: Attendance will be taken and considered when final grades 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%	3.00
B	70 - 79%	2.00
C	60 - 69%	1.00
D	50 – 59%	0.00
F (Fail)	49% and below	
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:

Special Needs:

If you are a student with special needs (e.g. physical limitations, visual impairments, hearing impairments, or learning disabilities), you are encouraged to discuss required accommodations with your professor and/or the Special Needs office. Visit Room E1101 or call Extension 2703 so that support services can be arranged for you.

Retention of Course Outlines:

It is the responsibility of the student to retain all course outlines for possible future use in acquiring advanced standing at other postsecondary institutions.

Communication:

The College considers **WebCT/LMS** as the primary channel of communication for each course. Regularly checking this software platform is critical as it will keep you directly connected with faculty and current course information. Success in this course may be directly related to your willingness to take advantage of the **Learning Management System** communication tool.

Plagiarism:

Students should refer to the definition of “academic dishonesty” in *Student Code of Conduct*. Students who engage in academic dishonesty will receive an automatic failure for that submission and/or such other penalty, up to and including expulsion from the course/program, as may be decided by the professor/dean. In order to protect students from inadvertent plagiarism, to protect the copyright of the material referenced, and to credit the author of the material, it is the policy of the department to employ a documentation format for referencing source material.

Course Outline Amendments:

The professor reserves the right to change the information contained in this course outline depending on the needs of the learner and the availability of resources.

Substitute course information is available in the Registrar's office.

VII. PRIOR LEARNING ASSESSMENT:

Credit for prior learning will be given upon successful completion of a challenge exam or portfolio.

VIII. ADVANCE CREDIT TRANSFER:

Students who wish to apply for advance credit transfer (advanced standing) should obtain an Application for Advance Credit from the program coordinator (or the course coordinator regarding a general education transfer request) or academic assistant. Students will be required to provide an unofficial transcript and course outline related to the course in question.