

**SAULT COLLEGE OF APPLIED ARTS AND TECHNOLOGY**

**SAULT STE. MARIE, ONTARIO**



**SAULT  
COLLEGE**

**COURSE OUTLINE**

**COURSE TITLE:** Blueprints and Patterns

**CODE NO. :** MTF238 **SEMESTER:** FOUR

**PROGRAM:** Metal Fabrication Technician

**AUTHOR:** Steve Witty

**DATE:** January 2016 **PREVIOUS OUTLINE DATED:** January 2015

**APPROVED:** *“Corey Meunier”*

**CHAIR**

**DATE**

**TOTAL CREDITS:** 2

**PREREQUISITE(S):** MTF140

**HOURS/WEEK:** 2

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**For additional information, please contact Corey Meunier, Chair**  
**School of Technology & Skilled Trades**

**(705) 759-2554, Ext. 2610**

**I. COURSE DESCRIPTION:**

Students are to use skills developed in MTF 140 and 200 Blueprinting classes, to produce a complete drawing package. Drawings to include Assembly, Shop prints, Detailed views of each component and field sketches. This complete set of drawings will correspond to the individual shop project students are to build in MTF 236.

**II. LEARNING OUTCOMES AND ELEMENTS OF THE PERFORMANCE:**

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

**1. *Field Sketch***

Potential Elements of the Performance:

Produce accurate Field sketch

- Transfer dimensions as directed for customer.
- Ensure correct sizing and placement
- Visualize product is workable
- Obtain customers approval

**2. *Shop Drawings***

Potential Elements of the Performance:

Create workable Shop Drawings

- Develop individual orthographic views of each component
- Supply detailed views of each for construction
- Notes and specifications
- Dimensioning
- Holes
- Threads
- Welding symbols
- Welding procedures and specifications, notes

**3. *Assembly Drawing***

Potential Elements of the Performance:

Produce Assembly Drawing

- Use field sketch, shop drawings and detailed views
- Add any revisions required to complete product
- List all part numbers and materials are listed.

**III. TOPICS:**

1. Field Sketch
2. Shop Drawings
3. Assembly Drawing

**IV. REQUIRED RESOURCES/TEXTS/MATERIALS:**

- IPT Metal Trades Handbook
- Drafting Kit
- Calculator

**V. EVALUATION PROCESS/GRADING SYSTEM:**

Part 1 NOTES:

1. Late hand in penalties will be 10% per day. Assignments will not be accepted past one week late unless there are extenuating and legitimate circumstances.
2. If a student misses a test/lab he/she must have a valid reason (i.e. medical or family emergency – documentation shall be required). In addition, the instructor **MUST** be notified **PRIOR** to the test or lab sitting. If this procedure is not followed the student will receive a mark of zero on the test/lab with no make-up option.
3. Re-writes are **NOT** allowed for any written assignment, quiz or test.
4. Repeats are **NOT** allowed for any shop test.
5. Course attendance is mandatory. One percent (1 %) per hour will be deducted from the final course grade for unexcused\* absence.

**[Any absence without a written, valid reason will be deemed unexcused.]**

Valid reasons would include:

- Doctor's note
- Court note
- Family Death or Serious Illness supported by a written note.

Part 2 Final Course Grades:

The final course grade will be determined by means of the following list of weighted factors:

<b><i>Factor</i></b>	<b><i>Value</i></b>
Hand-in assignments	80%
Tests	20%
Attendance	-1% per Unexcused Hour
Late	-1% per Late

The following semester grades will be assigned to students:

<b>Grade</b>	<b>Definition</b>	<i>Grade Point Equivalent</i>
A+	90 – 100%	4.00
A	80 – 89%	
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.

***It is the departmental policy that once the classroom door has been closed, the learning process has begun. Late arrivers will not be granted admission to the room.***

## VII. COURSE OUTLINE ADDENDUM:

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