

## COURSE OUTLINE: MTF238 - BLUEPRINTS/PATTERNS

Prepared: Dave Holley

Approved: Corey Meunier, Chair, Technology and Skilled Trades

Course Code: Title	MTF238: BLUEPRINTS AND PATTERNS	
Program Number: Name	4051: METAL FABRICATION	
Department:	IRONWKR APPR./WELDING RELATED	
Semesters/Terms:	20W	
Course Description:	Students are to use skills developed in applied blueprint reading and Advanced Blueprinting classes, to produce a complete drawing package. Drawings to include Assembly, Shop prints, detailed views of each component and field sketches overall material and cutting list. This complete set of drawings will correspond to the individual shop project students are to build in Field Fitting and Layout.	
Total Credits:	2	
Hours/Week:	2	
Total Hours:	30	
Prerequisites:	MTF140	
Corequisites:	There are no co-requisites for this course.	
Substitutes:	MTF232	
Vocational Learning Outcomes (VLO's) addressed in this course:  Please refer to program web page for a complete listing of program outcomes where applicable.  Essential Employability Skills (EES) addressed in this course:	<ul> <li>4051 - METAL FABRICATION</li> <li>VLO 1 Interpret blueprints and produce basic drawings and bills of materials.</li> <li>VLO 4 Create and use patterns and templates using common layout and measuring tools.</li> <li>VLO 6 Develop project plans relating to component and sub-assembly production.</li> <li>VLO 7 Complete all work in compliance with health and safety legislation and prescribed organizational practices and procedures to ensure safety of self and others.</li> <li>VLO 8 Work responsibly and effectively in accordance with government safety regulations, manufacturer's recommendations and approved industry standards.</li> <li>EES 1 Communicate clearly, concisely and correctly in the written, spoken, and visual form that fulfills the purpose and meets the needs of the audience.</li> <li>EES 2 Respond to written, spoken, or visual messages in a manner that ensures effective communication.</li> <li>EES 3 Execute mathematical operations accurately.</li> <li>EES 4 Apply a systematic approach to solve problems.</li> <li>EES 5 Use a variety of thinking skills to anticipate and solve problems.</li> <li>EES 10 Manage the use of time and other resources to complete projects.</li> <li>EES 11 Take responsibility for ones own actions, decisions, and consequences.</li> </ul>	
Course Evaluation:	Passing Grade: 50%, D	
Other Course Evaluation &	Late hand in penalties will be 10% per day. Assignments will not be accepted past one week	

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## Assessment Requirements:

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:

Doctors note

Family Death or Serious Illness supported by a written note.

## Course Outcomes and Learning Objectives:

Course Outcome 1	Learning Objectives for Course Outcome 1
Students are to use skills	Field Sketch
developed in MTF 140 and	Potential Elements of the Performance:
200 Blueprinting classes, to	Produce accurate Field sketch
produce a complete drawing	Transfer dimensions as directed for customer.
package. Drawings to	Ensure correct sizing and placement
include Assembly, Shop	Visualize product is workable
prints, Detailed views of	Obtain customers approval
each component and field	Shop Drawings
sketches. This complete set	Potential Elements of the Performance:
of drawings will correspond	Create workable Shop Drawings
to the individual shop project	Develop individual orthographic views or each component
students are to build in MTF	Supply detailed views of each for construction
236.	Notes and specifications
	Dimensioning
	Holes
	Threads
	Welding symbols
	Welding procedures and specifications, notes
	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.

## **Evaluation Process and Grading System:**

Evaluation Type	Evaluation Weight
Hand in Assignments	80%
Tests	20%

Date:

July 25, 2019

Addendum:

Please refer to the course outline addendum on the Learning Management System for further information.



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