ORIGINAL COURSE IMPLEMENTATION DATE: September 2013
REVISED COURSE IMPLEMENTATION DATE: September 2024
COURSE TO BE REVIEWED (six years after UEC approval)**:** January 2030
Course outline form version: 28/10/2022

OFFICIAL UNDERGRADUATE COURSE OUTLINE FORM

Note: The University reserves the right to amend course outlines as needed without notice.

Course Code and Number: PLMB 113	**Number of Credits:** 3
Course Full Title: Blueprint Reading and Drawing **Course Short Title:** Blueprint Reading & Drawing	
Faculty: Faculty of Applied and Technical Studies	**Department (or program if no department):** Plumbing and Piping

Calendar Description:

Introduces students to the language of mechanical blueprints. Drafting standards are used to interpret drawings as well as enabling students to create their own single line drawings. Students will have an introduction to the piping symbols used on mechanical blueprint drawings and learn proper methods to draw and read plumbing symbols on drawings.

Prerequisites (or NONE):	PLMB 112.
Corequisites (if applicable, or NONE):	NONE
Pre/corequisites (if applicable, or NONE):	NONE

Antirequisite Courses *(Cannot be taken for additional credit.)*

Former course code/number:

Cross-listed with:

Equivalent course(s):

(If offered in the previous five years, antirequisite course(s) will be included in the calendar description as a note that students with credit for the antirequisite course(s) cannot take this course for further credit.)

Typical Structure of Instructional Hours

Lecture/seminar	43
Tutorials/workshops	25
Supervised laboratory hours (shop)	7
Total hours	**75**

Scheduled Laboratory Hours

Labs to be scheduled independent of lecture hours: ☒ No ☐ Yes

Course Details

Special Topics course: **No**

(If yes, the course will be offered under different letter designations representing different topics.)

Directed Study course: **No**

(See policy 207 for more information.)

Grading System: **Credit/No Credit**

Delivery Mode: **May be offered in multiple delivery modes**

Expected frequency: **Annually**

Maximum enrolment (for information only)**: 18**

Prior Learning Assessment and Recognition (PLAR)

PLAR is available for this course.

Transfer Credit *(See bctransferguide.ca.)*

Transfer credit already exists: **No**

Submit outline for (re)articulation: **No**

Department approval	**Date of meeting:**	November 2023
Faculty Council approval	**Date of meeting:**	December 2023
Undergraduate Education Committee (UEC) approval	**Date of meeting:**	January 26, 2024

Learning Outcomes

Upon successful completion of this course, students will be able to:

1. Use drafting tools, symbols, and line conventions when creating drawings.
2. Convert between isometric and orthographic projections.
3. Interpret information found on a set of drawings.
4. Describe documentation encountered in the piping trades, including manufacturer and supplier documentation.
5. Source manufacturer documentation.

Recommended Evaluation Methods and Weighting

Final exam:	50%	Assignments:	20%	
Quizzes/tests:	20%	Shop work:	10%	

Details:

70% minimum needed in course after weighted percentages.

NOTE: The following sections may vary by instructor. Please see course syllabus available from the instructor.

Typical Instructional Methods

Presentations, online instruction, labs for drawing exercises.

Texts and Resource Materials

	Type	Author or description	Title and publication/access details	Year
1.	Textbook	Troy White	Canadian Plumbing Design and Installation	2019
2.	Other	ILM	UFV Plumbing Custom Package	2021

Required Additional Supplies and Materials

Scientific calculator (non-programmable)
Steel toe boots
Safety glasses

Course Content and Topics

Abbreviation and symbols
Mechanical plan reading
Orthographic drawings
Isometric drawings
Manufacturer and supplier documentation

Blueprint reading: 1.5 weeks
Drawing: 1.5 weeks