

OFFICIAL UNDERGRADUATE COURSE OUTLINE FORM

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

Course Code and Number: PLMB 112		Number of Credits: 6													
Course Full Title: Tools and Materials Course Short Title: Tools & Materials															
Faculty: Faculty of Applied and Technical Studies		Department (or program if no department): Plumbing and Piping													
Calendar Description: Introduces the tools and common materials used in the piping trades. Students will learn to select and safely use the appropriate tools and materials through practical projects designed for work applications.															
Prerequisites (or NONE):		PLMB 111.													
Corequisites (if applicable, or NONE):		NONE													
Pre/corequisites (if applicable, or NONE):		NONE													
Antirequisite Courses <i>(Cannot be taken for additional credit.)</i> Former course code/number: Cross-listed with: Equivalent course(s): <i>(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.)</i>		Course Details Special Topics course: No <i>(If yes, the course will be offered under different letter designations representing different topics.)</i> Directed Study course: No <i>(See policy 207 for more information.)</i> Grading System: Credit/No Credit Delivery Mode: May be offered in multiple delivery modes Expected frequency: Annually Maximum enrolment (for information only): 18													
Typical Structure of Instructional Hours <table border="1"> <tr> <td>Lecture/seminar</td> <td>40</td> </tr> <tr> <td>Tutorials/workshops</td> <td>35</td> </tr> <tr> <td>Supervised laboratory hours (shop)</td> <td>75</td> </tr> <tr> <td></td> <td></td> </tr> <tr> <td></td> <td></td> </tr> <tr> <td>Total hours</td> <td>150</td> </tr> </table>		Lecture/seminar	40	Tutorials/workshops	35	Supervised laboratory hours (shop)	75					Total hours	150	Prior Learning Assessment and Recognition (PLAR) PLAR is available for this course.	
Lecture/seminar	40														
Tutorials/workshops	35														
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Total hours	150														
Scheduled Laboratory Hours Labs to be scheduled independent of lecture hours: <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes		Transfer Credit <i>(See bctransferguide.ca.)</i> 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. Select hand tools, portable power tools, and stationary power tools appropriate to the piping process.
2. Use hand tools, portable power tools, and stationary power tools appropriate to the piping process.
3. Inspect and maintain hand tools, portable power tools, and stationary power tools appropriate to the piping process.
4. Use pressure measuring tools including manometers and mechanical gauges.
5. Select and use ladder and platforms.
6. Identify materials common to the piping trades.

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, tool demonstrations, group, and individual practicals.

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

Hand tools
Power tools
Portable tools
Stationary tools
Measurement tools
Plumbing materials
Piping materials
Electrical materials

Tools: 1.5 weeks
Materials: 4.5 weeks