



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.

<b>Course Code and Number:</b> PLMB 114		<b>Number of Credits:</b> 9													
<b>Course Full Title:</b> DWV, Water, and Fixtures <b>Course Short Title:</b> DWV, Water & Fixtures															
<b>Faculty:</b> Faculty of Applied and Technical Studies		<b>Department (or program if no department):</b> Plumbing and Piping													
<b>Calendar Description:</b> Applies local codes to properly size, install, and test drainage, venting, and water pipes and fittings. Includes the basic design, operation, and installation of drain, waste, venting, potable, hot water, and gas systems.															
<b>Prerequisites (or NONE):</b>		PLMB 113.													
<b>Corequisites (if applicable, or NONE):</b>		NONE													
<b>Pre/corequisites (if applicable, or NONE):</b>		NONE													
<b>Antirequisite Courses</b> <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>		<b>Course Details</b> Special Topics course: <b>No</b> <i>(If yes, the course will be offered under different letter designations representing different topics.)</i> Directed Study course: <b>No</b> <i>(See <a href="#">policy 207</a> for more information.)</i> Grading System: <b>Credit/No Credit</b> Delivery Mode: <b>May be offered in multiple delivery modes</b> Expected frequency: <b>Annually</b> Maximum enrolment (for information only): <b>18</b>													
<b>Typical Structure of Instructional Hours</b> <table border="1"> <tr> <td>Lecture/seminar</td> <td>50</td> </tr> <tr> <td>Tutorials/workshops</td> <td>25</td> </tr> <tr> <td>Supervised laboratory hours (shop)</td> <td>150</td> </tr> <tr> <td></td> <td></td> </tr> <tr> <td></td> <td></td> </tr> <tr> <td><b>Total hours</b></td> <td><b>225</b></td> </tr> </table>		Lecture/seminar	50	Tutorials/workshops	25	Supervised laboratory hours (shop)	150					<b>Total hours</b>	<b>225</b>	<b>Prior Learning Assessment and Recognition (PLAR)</b> PLAR is available for this course.	
Lecture/seminar	50														
Tutorials/workshops	25														
Supervised laboratory hours (shop)	150														
<b>Total hours</b>	<b>225</b>														
<b>Scheduled Laboratory Hours</b> Labs to be scheduled independent of lecture hours: <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes		<b>Transfer Credit</b> <i>(See <a href="#">bctransferguide.ca</a>.)</i> Transfer credit already exists: <b>No</b> Submit outline for (re)articulation: <b>No</b>													
<b>Department approval</b>		<b>Date of meeting:</b> November 2023													
<b>Faculty Council approval</b>		<b>Date of meeting:</b> December 2023													
<b>Undergraduate Education Committee (UEC) approval</b>		<b>Date of meeting:</b> January 26, 2024													

**Learning Outcomes**

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

1. Install the appropriate pipe, fittings, and valves for different piping systems.
2. Organize a residential plumbing installation.
3. Plan a residential plumbing installation.
4. Install residential plumbing projects accurately.
5. Install residential plumbing fixtures.
6. Size to code drainage, waste, and vent piping systems.

**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, 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
3.			
4.			
5.			

**Required Additional Supplies and Materials**

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

**Course Content and Topics**

Venting systems  
Drainage systems  
Waste systems  
Potable water systems

DWV: 6 weeks  
Water: 2 weeks  
Fixtures: 1 week