

# Plumbing Technology

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Our Associate of Applied Science degree in Plumbing Technology integrates the theory and applications of today's plumbing materials, technology, and installation practices with the requirements the state plumbing code to prepare the graduate for entry into the fields of plumbing as a apprentice plumber.

MSU-Northern's innovative program is the only one of a kind in Montana and has the board support of the state's plumbing industry. The plumbing degree provides the student with a comprehensive course of study designed to make the program graduate a valuable asset to the plumbing industry and to provide the graduate with a lifetime career in the trade of journeyman plumber.

## Mission Statement

The mission of the Plumbing Technology program at MSU-Northern is to prepare students for successful employment in a variety of settings related to the field of Plumbing & Pipe fitting.

## Learning Outcomes for Plumbing Technology, AAS

Upon completion of this program, students will be able to:

- Operate pipe trades tools & equipment
- Perform plumbing math and layout work for the installation of plumbing systems
- Perform plumbing joint making processes
- Perform plan reading and plumbing drafting
- Perform plumbing work in compliance with current Uniform Plumbing Codes
- Enter into the field of plumbing as an apprentice plumber

## Associate of Applied Science

Code	Title	Credits
<b>Plumbing Credits</b>		
WRIT 108	Elementary Technical Writing <sup>1</sup>	3
M 111	Technical Mathematics <sup>2</sup>	3
COMX 111	Intro to Public Speaking <sup>3</sup>	3
<b>Required Courses</b>		
CAPP 120	Introduction to Computers	3
CSTN 135	Basic Rigging	1
DDSN 119	Technical Graphics I	3
EET 110	Electronics Survey I	3
HPE 234	First Aid and CPR	2
IT 111	Industrial Safety/Waste Mgmt	2
PLUM 100	Intro to the Plumbing Trades	4
PLUM 110	Intro to Plumbing and Drawing	1
PLUM 120	Intro to Piping Systems	3
PLUM 125	Intro to Plumbing Fixtures	2
PLUM 170	Plumbing Codes	2
PLUM 200	Pipe Fitting Tools & Motor Eq	3
PLUM 210	Advanced Blueprint Reading	2
PLUM 230	Hngrs, Supports, & Fld Testing	2
PLUM 250	Special Piping	3
PLUM 260	Intro to Cntrl Circuit Trblsht	2
PLUM 270	Hydronic Heating & Cooling Sys	2
PLUM 280	Energy Management	1
PLUM 285	System Startup & Shutdown	1
WLDG 110	Welding Theory I	2
WLDG 111	Welding Theory I Practical	2

**Select from either TSCI or WLDG to complete the degree**

PLUM 240	Distribution Systems	3
PLUM 206	Applied Water Hydraulics	3

**OR**

WLDG 180	Shielded Metal Arc Welding	3
WLDG 186	Welding Qual Test Prep w/Lab	3

**Total minimum credits required for degree** **61**

- 1 Meets Communications Requirement
- 2 Meets Computation Requirement
- 3 Meets Human Relations Requirement

**PLEASE NOTE: Students enrolled in this program will pay \$175/semester in program fees. These fees are in addition to tuition and other mandatory fees.**