

## Plumbing

### ► Contact Information

Ivan Maas, department chair  
ivan.maas@ndscs.edu  
701-671-2662  
Barnard Hall 115

### ► Delivery Methods

Face-to-Face: Wahpeton

The Plumbing program at NDS-CS provides theory, code and hands-on training to prepare students for work in the plumbing field. The program also provides training in blueprint reading and drafting as well as a course that focuses on workplace safety. Upon successful completion of the safety course, the students will attain the OSHA 10-hour certification card. Students participate in SkillsUSA State Skills Competition and take the SkillsUSA Competency exam.

Students will spend hours in the lab learning to work with copper, plastic and PEX piping methods and also learning the proper procedures for installing fixtures. Lab courses seek to create good work habits and to develop interpersonal skills. Design classes are included to help students advance their careers in the plumbing industry. Green technology techniques are presented to the students as they are an ever-growing source of discussion regarding conservation.

Upon successful completion of the NDS-CS Plumbing program, up to 2,040 schooling hours may be credited toward the apprenticeship training time.

Course Code	Course Title	Credits
<b>Certificate</b>		
MSYS 101	Safety for Mechanical Systems Technicians	1
MSYS 103	Math for Mechanical Systems Technicians	3
MSYS 151	Drafting and Sketching	2
PLMB 101	Plumbing Theory and Code	4
PLMB 102	Plumbing Theory and Code	4
PLMB 105	Core Curriculum for Plumbers	2
PLMB 111	Plumbing Lab	6
PLMB 112	Plumbing Lab	6
PLMB 132	Plumbing Drawing, Sketching and Design	3

A student will earn a certificate in Plumbing after completing the above courses and the appropriate credits of general education courses as listed below. An Associate in Applied Science degree in Mechanical Systems may be earned by taking the additional classes listed from the HVAC/R Technology curriculum.

### Related/General Education Courses

ENGL 105	Technical Communications	3
	Social and Behavioral Sciences, Humanities, History and/or Computer Electives	2
	Recommended:	
	• CIS 101 – Computer Literacy – 2 cr	
FYE 101	Science of Success	1

**Total Required Credits 37**

**A student will earn a certificate in Plumbing after completing all the above courses. An Associate in Applied Science degree in Mechanical Systems may be earned by taking the additional REFG (HVAC/R) courses listed under the Mechanical Systems AAS Degree.**

### Admission Requirements\*

The applicants must be high school graduates or equivalent. Students considered for acceptance must complete all admission requirements.

Required minimum placement scores:

<u>ACT</u>	<u>ACCUPLACER</u>	<u>ACCUPLACER</u>
Reading – 15	Reading Comp – 61	<u>NEXT GENERATION</u>
English – 15	WritePlacer – 3-4	Reading – 240
		Writing – 237

Or transfer equivalencies will apply as appropriate

Applicants not meeting the above requirements are encouraged to visit with the academic counselor at 701-671-2257 or the Building Systems department chair at 701-671-2662 for strategies to meet the admission requirements.

*\*Program Admission Requirements are subject to revision. Please check the department or program website under Program Admission Requirements for current information.*

### Award

Upon successful completion of the required courses, students will be awarded a certificate in Plumbing.

Revised: May 2021