



PLBG 1108

Plumbing/Pipe Drawings

Fall 2024

Course Information

Credits: 2

Pre-requisites: None

Corequisites: PLBG 1110, PLBG 1108, PLBG 1112

Course Description, Purpose and Outcomes

Description: This course provides students with the technical understanding and skills in blueprint reading and product spec sheets needed by plumbers. Topics include drawing interpretation, isometric sketches of piping installations, and drafting mechanical plans of piping for residential construction.

Learner Outcomes:

1. Interpret kitchen, bathtub, water closet, rough in sheets & waste/vent piping specifications.
2. Create drain, waste, and vent isometric pipe sketches for residential plans in all areas.
3. Identify drawing symbols.
4. Calculate sewage disposal system elevations.
5. Demonstrate the ability to make application decisions to comply with local code using drawing illustrations.
6. (ILO: 1) Demonstrate communication skills by creating drawings that are legible, accurate, and in compliance with local plumbing code.

Course format: This course will meet every week at the scheduled times: Monday 10:00 – 10:50 am lecture in room 256, Monday 11:00 am – 12:50 pm Lab in room 502b.

It is important to check your student college e-mail account daily. College e-mail is the official means of communication at NCTC. If you have questions regarding how to open and or use your college email account, please contact your campus IT department as soon as possible.

Textbooks/Supplies

Required: Ripka, L.V. PLUMBING, Design and Installations Fourth Edition Homewood IL: American Technical Publishers 2002.

Instructor information

Name & title: Jack Hanson

Office location: 512

Office hours: Wednesday 12:00 pm – 2:00 pm, or by appointment.

Phone number and email address: 218.793.2602, jack.hanson@northlandcollege.edu

Policies

Attendance & participation: Attendance will be taken daily. Attendance and participation at all class sessions are expected. If a student does not attend class for 2 or more consecutive class periods, the student's name will be registered with the Office of the Registrar as a "Non-Participant." This means the student will no longer have access to this course and should take immediate steps to formally drop this course. **NOTE: This may cause havoc with your financial air responsibilities.** If you are unable to attend class due to an emergency, contact your instructor as soon as possible, by leaving a voicemail or sending me an email. Please try to make appointments, doctor, dentist, etc., at times that do not affect your attendance in class. Continued absences will affect a student's grade independently of other course work. Excessive absences will result in automatic failure of the course, especially on days when we are doing in-class work, or are at the project house, which is a significant learning component of the class and cannot be made up without written medical, legal, or military documentation. Every class period we spend working at the project house is considered a lab project and will be graded as such and are not able to be made up. Class activities and pop quizzes will be scattered throughout the semester, such activities will go toward your final course grade and cannot be made up **up regardless of the reason for the absence.** Please note that if you should miss class, it is your responsibility to obtain missed information from a classmate. You may, however, pick up any handouts that you may have missed from me. Tardiness is not appropriate, ensure that you allow yourself enough time to be in class before it begins.

Missed assignments/exams: If an assignment is turned in late, a student may not receive credit. For graded assignments that are returned to you and/or are entered into Brightspace (D2L), students have one week to question the accuracy of the grade or raise questions. Most of your assignments will be handed in by hard copy. On occasion, it may be possible/required to submit assignments via e-mail. **Please Note:** Your computer breaking, or printer not working, etc, will never be accepted as an excuse for late work. It is your responsibility to begin work early enough to accommodate unforeseen circumstances. The college provides computer workstations all around campus.

NCTC Student Code of Conduct

It is expected that students will adhere to the NCTC Student Code of Conduct for all assignments and tests. Acts prohibited by the college for which discipline may be administered include scholastic dishonesty, including but not limited to, cheating on an exam or quiz, plagiarizing, and unauthorized collaboration with another in preparing outside work. Academic work submitted by students shall be the result of their own thought, research or self-expression. Academic work is defined as, but not limited to, tests, quizzes, whether taken electronically or on paper; projects, either individual or group; and homework.

Students who do not comply with the Code of Conduct will be given a grade of "F" in the course. [Academic Dishonesty Policy 3072](#)

A copy of the Northland Student Handbook can be accessed by clicking the following link.
<http://www.northlandcollege.edu/handbook/>

Expected classroom and lab conduct: All students are expected to act in a professional and respectful manor during class and lab.

Diversity Statement

It is an integral part of Northland Community and Technical College's mission to acknowledge, understand, value, and celebrate the diverse heritage, cultures, and individuals within our learning environment and community. The college views diversity as an essential component of the educational experience of our students.

Assignments, Exams and Grading

Grading scale:

A 90-100%

B 80-89%

C 70-79%

D 60-69%

F < 59%

There will be NO rounding up on any materials used for student evaluation including exams and assignments and final grades.

Extra points/bonus points/optional points: There will be NO extra credit/bonus points offered in any PLBG course. This includes optional points where the total possible points for those assignments are not added to the total points for the course.

Incompletes: From the [NCTC policy on Incomplete grades](#): Students must request of the instructor that they be assigned a grade of incomplete (I). A grade of "I" may be assigned at the discretion of the instructor only in exceptional circumstances and is a temporary grade. It is to be given only to students who cannot complete the coursework on schedule because of illness or other circumstances beyond their control. A written agreement, including a plan for completing the remaining course work, may be required well before the end of the semester. An incomplete grade will automatically become an "F" grade at the end of the next term if requirements have not been satisfactorily met. Instructors have the option of setting an earlier completion date.

Technology requirements

Computer requirements: See the computer system check link on the D2L Brightspace login page for computer requirements: [Computer system check](#) (Is my computer D2L Brightspace compatible)

Technical skills: Students will need an *active NCTC email account* and *internet access*. The college utilizes Desire to Learn (D2L Brightspace) course management system for online courses. Go to [D2L Brightspace log in page](#) to log into D2L Brightspace. Along with utilizing the D2L Brightspace management system and email with attachments, students should also be able to create and submit Microsoft Word, Excel and PowerPoint documents, save and submit PDF documents, and be able to use Zoom or other web conferencing tool if desired for student group work.

Academic Support Services

Northland Community and Technical College is committed to providing equitable access to learning opportunities for all students. The Academic Success Center (ASC) collaborates with students who have short-term or long-term disabilities to provide and/or arrange reasonable accommodations. If you have, or think you

may have, a disability please contact the ASC at 218-683-8560 (V), or email asc@northlandcollege.edu to arrange a confidential meeting. Students must first register a documented disability to establish an accommodation plan. Additional information is available on the ASC website: <http://www.northlandcollege.edu/support-services/academic-successcenter/disability-services/>. If you are a registered student with the ASC and have a current accommodation letter, please schedule an appointment to visit with me, during my office hours, to discuss implementation of your accommodations.

Students who are requesting accommodation must provide the instructor with a letter of accommodation from the Academic Success Center at the beginning of the semester. Accommodation will be made after the instructor receives the letter of accommodation from the student.

The [NCTC library](#) offers print, media and electronic database collections, as well as a place to relax and study. The link is also included under the 'Resources' tab in our D2L Brightspace course.

Student Services

The NCTC [Support Services & Resources](#) web page provides links to many of the previously mentioned student services as well as academic advising and counseling. This is free to all NCTC students.

Course Calendar/Schedule

Where to go in D2L Brightspace

The following paragraphs will guide you in finding your way to the most used areas in D2L Brightspace.

Course Home: This is the announcements page for the course, and it also shows the updates to the course. I will post pertinent updates/announcements here (usually weekly).

Content: (Found from the drop-down menu when you click on 'Materials' tab below the course name). This area contains all the content information for the course. This includes weekly power point handouts, assignments, syllabus, schedule, discussions, etc. The course syllabus and schedule are two important documents to review your first day in the course. I highly encourage you to print these two documents and keep them handy as a resource and guide while you complete this course. There will be assignments due each week. It is your responsibility to follow the course schedule and meet all due dates. You may print or copy any of the documents you find here, and you will spend most of your class time here.

Discussion: (Found from the drop-down menu when you click on 'Communications' tab below the course name). The **discussion** area of D2L Brightspace is utilized throughout the course. There is a 'course Q & A' forum that will remain open all semester. It's a great place to ask questions you have about the course. For your ease in reading, **discussions** are organized by topics. I will do my best to answer questions within 24 hours business days. If one of you knows the answer to a question, feel free to share it with your classmates! There may also be several assignments in the discussion area.

Assignments: (Found from the drop-down menu when you click on 'Assessments' tab below the course name). Some course items need to be submitted to the D2L Brightspace **Assignments** folder that is designated specifically for that item. For example, the Module 1 Graded Assignment needs to be uploaded to the **Assignment folder** labeled for the Module 1 Graded Assignment. Do not submit any course items for grading via email or fax. Course submissions are only accepted if they are placed in the **Assignment folder** designated for that item.

Quizzes: (Found from the drop-down menu when you click on 'Assessments' tab below the course name). The quizzes area will be used for some of the weekly graded assignments, as well for the main exams for the course.

Due to the pandemic, tests may be required to be taken from home utilizing Respondus Lockdown and Monitor (you are video and audio recorded while taking the test). See more information later in this syllabus. There is a practice test to ensure that your computer is ready for the first actual test.

Grades: (Found from the drop-down menu when you click on 'Assessments' tab below the course name). You will be able to check points for all your individual assignments, tests, quizzes, etc. in the grades area. Your current grade earned so far will be available here.

Class list: (found from the drop-down menu when you click on 'Communication' tab below the course name). This area offers you the ability to contact all your classmates and instructor through email. You will also see who members of your class groups are, when group work is required by the instructor.

Email: (Found from the drop-down menu when you click on the 'Communication' tab below the course name). You can send emails to your classmates and instructor in the email tool.