

Plumbing Codes I (PFPB 1323: Spring 2025)



**LAMAR INSTITUTE
OF TECHNOLOGY**

CREDIT

3 Semester Credit Hours (2 hours lecture, 4 hours lab)

MODE OF INSTRUCTION

Face to Face

PREREQUISITE/CO-REQUISITE:

None

COURSE DESCRIPTION

State and local plumbing codes and the application of potable water, waste water, and gas systems relating to residential and light commercial settings. (From WECM)

COURSE OBJECTIVES

Upon completion of this course, the student will be able to

- 1 Identify, differentiate, and explain the sections of the state and local building codes pertaining to plumbing.
2. Describe basic public health and safety related to plumbing systems.

INSTRUCTOR CONTACT INFORMATION

Instructor: Henry LaRocca

Email: hlarocca@lit.edu

Office Phone: (409) 245-8758 Cell: (409) 998-0528

Office Location: PATC 210

Office Hours: Monday and Wednesday: 8:30 a.m. – 9:00 a.m.
Tuesday and Thursday: 12:00 p.m. – 1:00 p.m.
Friday: 8:00 a.m. – 10:00 a.m.

REQUIRED TEXTBOOK AND MATERIALS

Textbook: 2018 International Plumbing Code

Author: IPC; Publisher: ICC

Materials/Tools

<u>Item</u>	<u>Quantity</u>
Calculated Industries Calculator	1
Highlighters	2

Approved: **Initials/date**

<u>Item</u>	<u>Quantity</u>
3"-3 ring notebook and notebook paper	1
25 ft. min. steel tape/6 ft. plumbers folder ruler	1 each
Safety glasses	1
Leather gloves	1 pair
Safety Shoes	1 pair
Calculated Industries Calculator	1
Required PFPB Shirt	2 minimum
Screwdriver, flat tip, 6 inch	1
Screwdriver 10 inch	1
Screwdriver Phillips #2 tip, 6 inch	1
Adjustable Wrenches – 6 inch and 12 inch	1 each
Pipe wrench – 14 inch	1
Pliers – Needlenose pliers, 7 inch	1
Pliers – Adjustable or ARC joint	1
Hammer – ball peen, 16 ounce	1
Hacksaw, adjustable angle	1
Hacksaw 18 TPI B=blades	3-5

ATTENDANCE POLICY

- I. Students are allowed to miss two days without penalty; each additional day will result in the student's grade being dropped by a letter grade.
 - Example:
 - 2 days absent = If student has an A average no penalty
 - 3 days absent = A drops to a B
 - 4 days absent = B drops to a C
 - 5 days absent = C drops to a D (student must retake class)
 - 6 days absent = D drops to a F (student must retake class)

- II. Absences are counted for unexcused, excused and coming to class late.

- III. 3 tardies = 1 absences
 - A. Tardy- arriving within 15 minutes after class begins or leaving before the end of class.
 - B. More than 15 minutes late you will be counted absent.
 - C. If you sleep in class, you will be counted absent.

- IV. Excused absences. Only given to allow students to make up missed work.
 - A. Will be given for documented Injury or Illness. The doctor's excuse required showing proof. Will count toward total days missed.
 - B. Will be given for documented Death in immediate family. Will count toward total days missed.
 - C. Approved LIT school functions; E.g., SkillsUSA, SGA etc. Will not count toward total days missed

DROP POLICY

If you wish to drop a course, you are responsible for initiating and completing the drop process. If you stop coming to class and fail to drop the course, you will earn an "F" in the course.

COURSE CALENDAR

DATE	TOPIC	READINGS (Due on this Date)	ASSIGNMENTS (Due on this Date)
Week 1	Chapter 1 Scope and Administration	All Sections of Part 1 and Part 2 Fill out and send off the Texas State Board of Plumbing Examiners Apprenticeship Application	Review Questions Scope and Administration (End of Week) Exam Scope and Administration (End of Week) Lab Scope and Administration (End of Week)
Weeks 2 & 3	Chapter 2 Definitions	All Sections	Review Questions Definitions (End of 1 st Week) Exam Definitions (End of 2 nd Week) Lab Definitions (End of 2 nd Week)
Weeks 4 & 5	Chapter 3 General Regulations	All Sections	Review Questions General Regulations (End of 1 st Week) Exam General Regulations (End of 2 nd Week) Lab General Regulations (End of 2 nd Week)
Weeks 6 & 7	Chapter 4 Fixtures, Faucets and Fixture Fittings	All Sections	Review Questions Fixtures, Faucets and Fixture Fittings (End of 1 st Week) Exam Fixtures, Faucets and Fixture Fittings (End of 2 nd Week)

			Lab Fixtures, Faucets and Fixture Fittings (End of 2 nd Week)
Weeks 8	Chapter 5 Water Heaters	All Sections	Review Questions Water Heaters (End of 1 st day of Week) Exam Water Heaters (End of Week) Lab Water Heaters (End of Week)
Week 9	Chapter 6 Water Supply and Distribution	All Sections	Review Questions Water Supply and Distribution (End of 1 st day of Week) Exam Water Supply and Distribution (End of Week) Lab Water Supply and Distribution (End of Week)
Week 10	Chapter 7 Sanitary Drainage	All Sections	Review Questions Sanitary Drainage (End of 1 st day of Week) Exam Sanitary Drainage (End of Week) Lab Sanitary Drainage (End of Week)
Week 11	Chapter 8 Indirect/Special Waste	All Sections	Review Questions Indirect/Special Waste (End of 1 st day of Week) Exam Indirect/Special Waste (End of Week) Lab Indirect/Special Waste (End of Week)
Week 12	Chapter 9 Vents	All Sections	Review Questions Vents (End of 1 st day of Week) Exam Vents (End of Week) Lab Vents (End of Week)

Week 13	Chapter 10 Traps, Interceptors and Separators; Chapter 11 Storm Drainage	All Sections	Review Questions Traps, Interceptors and Separators; and Storm Drainage (End of 1 st day of Week) Exam Traps, Interceptors and Separators; and Storm Drainage (End of Week) Lab Traps, Interceptors and Separators; and Storm Drainage (End of Week)
Week 14	Chapter 12 Special Piping and Storage Systems; Chapter 13 Nonpotable Water Systems; and Chapter 14 Subsurface Landscape and Irrigation Systems	All Sections	Review Questions Special Piping and Storage Systems; Nonpotable Water Systems; and Subsurface Landscape and Irrigation Systems (End of 1 st day of Week) Exam Special Piping and Storage Systems; Nonpotable Water Systems; and Subsurface Landscape and Irrigation Systems (End of Week) Lab Special Piping and Storage Systems; Nonpotable Water Systems; and Subsurface Landscape and Irrigation Systems (End of Week)
Week 15	Review		
Final Week	Finals	Final Exam	Over all chapters in IPC Book.

ADDITIONAL COURSE INFORMATION

SKILLMILL will be incorporated in class readings and coursework.

COURSE EVALUATION

Final grades will be calculated according to the following criteria:

Review Questions	15%
Exams	25%
Lab/Projects	40%
Final	20%

GRADE SCALE

- 90-100 A
- 80-89 B
- 70-79 C
- 60-69 D
- 0-59 F

TECHNICAL REQUIREMENTS

The latest technical requirements, including hardware, compatible browsers, operating systems, etc. can be online at <https://lit.edu/online-learning/online-learning-minimum-computer-requirements>. A functional broadband internet connection, such as DSL, cable, or WiFi is necessary to maximize the use of online technology and resources.

DISABILITIES STATEMENT

The Americans with Disabilities Act of 1990 and Section 504 of the Rehabilitation Act of 1973 are federal anti-discrimination statutes that provide comprehensive civil rights for persons with disabilities. LIT provides reasonable accommodations as defined in the Rehabilitation Act of 1973, Section 504 and the Americans with Disabilities Act of 1990, to students with a diagnosed disability. The Special Populations Office is located in the Eagles' Nest Room 129 and helps foster a supportive and inclusive educational environment by maintaining partnerships with faculty and staff, as well as promoting awareness among all members of the Lamar Institute of Technology community. If you believe you have a disability requiring an accommodation, please contact the Special Populations Coordinator at (409)-951-5708 or email specialpopulations@lit.edu. You may also visit the online resource at [Special Populations - Lamar Institute of Technology \(lit.edu\)](#).

STUDENT CODE OF CONDUCT STATEMENT

It is the responsibility of all registered Lamar Institute of Technology students to access, read, understand and abide by all published policies, regulations, and procedures listed in the *LIT Catalog and Student Handbook*. The *LIT Catalog and Student Handbook* may be accessed at www.lit.edu. Please note that the online version of the *LIT Catalog and Student Handbook* supersedes all other versions of the same document.\

ARTIFICIAL INTELLIGENCE STATEMENT

Lamar Institute of Technology (LIT) recognizes the recent advances in Artificial Intelligence (AI), such as ChatGPT, have changed the landscape of many career disciplines and will impact many students in and out of the classroom. To prepare students for their selected careers, LIT desires to guide students in the ethical use of these technologies and incorporate AI into classroom instruction and assignments appropriately. Appropriate use of these technologies is at the discretion of the instructor. Students are reminded that all submitted work must be their own original work unless otherwise specified. Students should contact their instructor with any questions as to the acceptable use of AI/ChatGPT in their courses.

STARFISH

LIT utilizes an early alert system called Starfish. Throughout the semester, you may receive emails from Starfish regarding your course grades, attendance, or academic performance. Faculty members record student attendance, raise flags and kudos to express concern or give praise, and you can make an appointment with faculty and staff all through the Starfish home page. You can also login to Blackboard or MyLIT and click on the Starfish link to view academic alerts and detailed information. It is the responsibility of the student to pay attention to these emails and information in Starfish and consider taking the recommended actions. Starfish is used to help you be a successful student at LIT.

ADDITIONAL COURSE INFORMATION

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