



PLAP 1227 SYLLABUS

Course Number Course Name	PLAP 1227 Plumbing Apprenticeship IV
Credit Value (Breakdown of theory and lab credits)	3.0 (2 Theory and 1 Lab)
Catalog Course Description	This course will provide the student with a basic understanding of the theory and practices of fixture installation and the use of various types of fixtures. Fixtures in both residential and commercial applications will be explored. Topics covered include plumbing fixtures; installation practices; institutional fixture and equipment; fixture controls; and appliances and accessories. This course will explore the history of water supply systems and the importance of clean potable water sources for human civilization as it has developed into modern day systems. Topics covered include introduction to water supply systems; pipe materials; water supply sources and treatment; distribution systems; building supply systems; water heating; and water conservation. Pre-requisites: None
Student Learning Outcomes/Objectives /Competencies of the Course	<p>Student Learning Outcomes:</p> <ul style="list-style-type: none"> • Identify ADA installation specification for fixtures. • Demonstrate proper installation of floor mounted and wall hung water closets. • Demonstrate residential and commercial lavatory installation. • Demonstrate bath tub and shower installations. • Demonstrate drinking fountain and water cooler installations. • Demonstrate proper electric and gas water heater installations. • Identify major events that cause the evolution of water supply systems. • Install a basic water piping system. • Identify water fixture appurtenances needing in various water supply systems. • Demonstrate proficiency in calculating water fixture units. • Identify the proper backflow device needed to protect municipal water systems. • Identify water properties in different states and how that effects piping systems.
College-Wide Student Learning Outcomes	<p><i>College Wide Student Learning Outcomes:</i></p> <p><i>Cultural Sustainability</i></p> <p><i>Information Competency</i></p>