

CATALOG INFORMATION

Dept and Nbr: APED 349      Title: APP PLUMBERS, 5TH SEM  
Full Title: Apprentice Plumbers, Fifth Semester  
Last Reviewed: 5/13/2024

Units		Course Hours per Week		Nbr of Weeks	Course Hours Total	
Maximum	2.00	Lecture Scheduled	0	18	Lecture Scheduled	0
Minimum	2.00	Lab Scheduled	6.00	8	Lab Scheduled	108.00
		Contact DHR	0		Contact DHR	0
		Contact Total	6.00		Contact Total	108.00
		Non-contact DHR	0		Non-contact DHR	0

Total Out of Class Hours: 0.00

Total Student Learning Hours: 108.00

Title 5 Category: AA Degree Non-Applicable  
Grading: Grade Only  
Repeatability: 00 - Two Repeats if Grade was D, F, NC, or NP  
Also Listed As:  
Formerly:

Catalog Description:  
Related supplemental instruction for apprentice plumbers and pipefitters

Prerequisites/Corequisites:

Recommended Preparation:

Limits on Enrollment:  
Indentured apprenticeship

Schedule of Classes Information:  
Description: Related supplemental instruction for apprentice plumbers and pipefitters (Grade Only)  
Prerequisites/Corequisites:  
Recommended:  
Limits on Enrollment: Indentured apprenticeship  
Transfer Credit:  
Repeatability: Two Repeats if Grade was D, F, NC, or NP

## **ARTICULATION, MAJOR, and CERTIFICATION INFORMATION:**

<b>AS Degree:</b>	<b>Area</b>	<b>Effective:</b>	<b>Inactive:</b>
<b>CSU GE:</b>	<b>Transfer Area</b>	<b>Effective:</b>	<b>Inactive:</b>
<b>IGETC:</b>	<b>Transfer Area</b>	<b>Effective:</b>	<b>Inactive:</b>
<b>CSU Transfer:</b>		<b>Effective:</b>	<b>Inactive:</b>
<b>UC Transfer:</b>		<b>Effective:</b>	<b>Inactive:</b>

**CID:**

**Certificate/Major Applicable:**

Certificate Applicable Course

## **COURSE CONTENT**

### **Student Learning Outcomes:**

At the conclusion of this course, the student should be able to:

1. Describe and demonstrate plumbing principles and regulations related to the plumbing and pipefitting trade.
2. Apply best practices in practical environment related to the plumbing and pipefitting trade.

### **Objectives:**

At the conclusion of this course, the student should be able to:

1. Interpret blueprints for commercial and industrial facilities
2. Describe the theory and application of plumbing traps and drainage venting systems
3. Describe water mains and water service systems
4. Demonstrate turning and soldering techniques
5. Identify parts and devices used in gas installation

### **Topics and Scope:**

1. Turning and soldering
2. Drawings
3. Plan reading
4. Drainage, water supply, gas installations

### **Assignment:**

1. Homework assignments (1 to 2 sets per week)
2. Quizzes and examinations (4 to 6 per semester)
3. Class performances and field work (on-the-job demonstrations) of skill development, safety practices, equipment, and material handling.

### **Methods of Evaluation/Basis of Grade:**

**Writing:** Assessment tools that demonstrate writing skills and/or require students to select, organize and explain ideas in writing.

None

Writing  
0 - 0%

**Problem Solving:** Assessment tools, other than exams, that demonstrate competence in computational or non-computational problem solving skills.

Homework assignments; field work

Problem solving  
10 - 25%

**Skill Demonstrations:** All skill-based and physical demonstrations used for assessment purposes including skill performance exams.

Class performances; field work

Skill Demonstrations  
50 - 65%

**Exams:** All forms of formal testing, other than skill performance exams.

Quizzes and examinations to include multiple choice, true/false, matching items, and completion

Exams  
10 - 20%

**Other:** Includes any assessment tools that do not logically fit into the above categories.

Attendance and participation

Other Category  
5 - 10%

### **Representative Textbooks and Materials:**

Gas Installations. International Pipe Trades Joint Training Committee. 2009 (classic)