

**APED 347 Course Outline as of Fall 2025**

**CATALOG INFORMATION**

Dept and Nbr: APED 347 Title: APP PLUMBERS, 3RD SEM

Full Title: Apprentice Plumbers, Third Semester

Last Reviewed: 5/13/2024

<b>Units</b>	<b>Course Hours per Week</b>		<b>Nbr of Weeks</b>		<b>Course Hours Total</b>	
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:**

Students will be introduced to training related to Plumbers and Pipefitters indentured apprenticeship. This is the third semester of a ten-semester program.

**Prerequisites/Corequisites:**

**Recommended Preparation:**

**Limits on Enrollment:**

Indentured apprentice

**Schedule of Classes Information:**

Description: Students will be introduced to training related to Plumbers and Pipefitters indentured apprenticeship. This is the third semester of a ten-semester program. (Grade Only)

Prerequisites/Corequisites:

Recommended:

Limits on Enrollment: Indentured apprentice

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 the practical environment related to the plumbing and pipefitting trade

### **Objectives:**

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

1. Read and interpret plumbing construction documents
2. Describe primary drainage systems
3. Describe water supply systems
4. Describe appliances used in gas service installations
5. Interpret the uniform plumbing code sections that apply to the content of this course

### **Topics and Scope:**

- I. Science and Mechanics Related to Plumbing and Pipefitting
- II. Drawings
- III. Plan Reading
- IV. Drainage, Water Supply, and Gas Supply Installation

### **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

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:**

Advanced Plan Reading and Related Design. International Pipe Trades Joint Training Committee. 2021

Planning Code Application. International Pipe Trades Joint Training Committee. 2021

Plumbing Fixtures and Appliances. International Pipe Trades Joint Training Committee. 2018. (classic).

Backflow Prevention and Cross-Connection Control. International Pipe Trades Joint Training Committee. 2022