

CATALOG INFORMATION

Dept and Nbr: APED 348      Title: APP PLUMBERS, 4TH SEM  
Full Title: Apprentice Plumbers, Fourth Semester  
Last Reviewed: 5/14/2018

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 apprentice

Schedule of Classes Information:  
Description: Related supplemental instruction for apprentice plumbers and pipefitters (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:**

**AS Degree: Area**  
**CSU GE: Transfer Area**

Effective: Inactive:  
Effective: Inactive:

**IGETC: Transfer Area**

Effective: Inactive:

**CSU Transfer:** Effective:

Inactive:

**UC Transfer:** Effective:

Inactive:

**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. Execute isometric and plan drawings of plumbing systems
2. Describe the function and installation of plumbing fixtures
3. Relate science and mechanics principles to the topics of this course
4. Describe sewage disposal systems
5. Interpret the uniform plumbing code sections that apply to the content of this course

### **Topics and Scope:**

1. Drafting
2. Plumbing fixtures and appliances
3. Science and mechanics related to plumbing and pipefitting
4. Special purpose installations
5. Plumbing code

### **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:**

Instructor CD. International Pipe Trades Joint Training Committee. 2010 (classic)