

**ADED 746 Course Outline as of Summer 2025****CATALOG INFORMATION**

Dept and Nbr: ADED 746 Title: INTRO TO PLAN READING

Full Title: Introduction to Plan Reading for Building Trades

Last Reviewed: 2/7/2022

Units		Course Hours per Week		Nbr of Weeks	Course Hours Total	
Maximum	0	Lecture Scheduled	0	16	Lecture Scheduled	0
Minimum	0	Lab Scheduled	2.50	4	Lab Scheduled	40.00
		Contact DHR	0		Contact DHR	0
		Contact Total	2.50		Contact Total	40.00
		Non-contact DHR	0		Non-contact DHR	0

Total Out of Class Hours: 0.00

Total Student Learning Hours: 40.00

Title 5 Category: Non-Credit

Grading: Non-Credit Course

Repeatability: 27 - Exempt From Repeat Provisions

Also Listed As:

Formerly: ADLTED 746

**Catalog Description:**

This course introduces students to reading and interpreting construction plan views, section cuts, elevations, and details for construction purposes. Students will learn to accurately apply measurements in drawings to varying scales and estimate material quantities for projects from building plans.

**Prerequisites/Corequisites:****Recommended Preparation:**

Course Completion of ADLTED 744; AND Course Completion of ADLTED 721 OR ADLTED 722

**Limits on Enrollment:****Schedule of Classes Information:**

Description: This course introduces students to reading and interpreting construction plan views, section cuts, elevations, and details for construction purposes. Students will learn to accurately apply measurements in drawings to varying scales and estimate material quantities for projects from building plans. (Non-Credit Course)

Prerequisites/Corequisites:

Recommended: Course Completion of ADLTED 744; AND Course Completion of ADLTED 721 OR ADLTED 722

Limits on Enrollment:

Transfer Credit:

Repeatability: Exempt From Repeat Provisions

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

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

<b>IGETC:</b>	<b>Transfer Area</b>	Effective:	Inactive:
---------------	----------------------	------------	-----------

<b>CSU Transfer:</b>	Effective:	Inactive:
----------------------	------------	-----------

<b>UC Transfer:</b>	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. Identify basic and standard symbols on building plans used in the construction trades.
2. Demonstrate an understanding of architectural and engineering scaled drawings and details.
3. Calculate simple construction quantities from building plans.

**Objectives:**

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

1. Read and interpret basic plan views sections cuts, elevations, and details for construction purposes
2. Accurately measure from drawings and details of varying scales
3. use details in plans to estimate quantities for materials needed to construct a project

**Topics and Scope:**

- I. The Drawing Set
  - A. Basic components of construction drawings
  - B. Title block
  - C. Border
  - D. Drawing area
  - E. Revision block
  - F. Legend
- II. Types of Construction Drawings
  - A. Civil plans
  - B. Architectural plans
  - C. Structural plans

- D. Mechanical plans
  - E. Plumbing/Piping plans
  - F. Electrical plan
  - G. Fire protection plans
  - H. Specifications
  - I. Request for information
- III. Scale
- A. Architectural scales
  - B. Engineering scales
- IV. Symbols, Line, and Notations
- A. Abbreviations, symbols, and keynotes
  - B. Using gridlines to identify plan locations
  - C. Dimensions
- V. Estimating Quantities
- A. Measurements
  - B. Calculating estimates of quantities

**Assignment:**

1. Weekly quizzes (6 - 8)
2. Exercises in estimating construction quantity from a representative commercial project (2 - 4)
3. Exercises in estimating construction quantity from a representative residential project (2 - 4)
4. Group problem-solving activities interpreting a variety of different plans (6 - 8)

**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.

None

Problem solving  
0 - 0%

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

In-class exercises in interpreting a variety of different plans; exercises in estimating construction quantity from commercial and residential plans

Skill Demonstrations  
55 - 100%

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

Skill assessment

Exams  
0 - 10%

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

Attendance and participation

Other Category  
0 - 35%

**Representative Textbooks and Materials:**

Instructor and department prepared materials