

**ADED 744 Course Outline as of Fall 2025****CATALOG INFORMATION**

Dept and Nbr: ADED 744 Title: SURVEY BUILDING &amp; CONSTR

Full Title: Survey of the Building Trades and Construction Industry

Last Reviewed: 12/9/2024

Units		Course Hours per Week		Nbr of Weeks	Course Hours Total	
Maximum	0	Lecture Scheduled	0	17	Lecture Scheduled	0
Minimum	0	Lab Scheduled	3.00	1	Lab Scheduled	51.00
		Contact DHR	0		Contact DHR	0
		Contact Total	3.00		Contact Total	51.00
		Non-contact DHR	0		Non-contact DHR	0

Total Out of Class Hours: 0.00

Total Student Learning Hours: 51.00

Title 5 Category: Non-Credit

Grading: Non-Credit Course

Repeatability: 27 - Exempt From Repeat Provisions

Also Listed As:

Formerly: ADLTED 744

**Catalog Description:**

In this course, students learn about the construction industry, including the different trades and crafts involved in the construction process, and the training and workforce development opportunities in these trades. Students also learn the purpose and function of different hand tools, power tools, and equipment commonly used in construction.

**Prerequisites/Corequisites:****Recommended Preparation:****Limits on Enrollment:****Schedule of Classes Information:**

Description: In this course, students learn about the construction industry, including the different trades and crafts involved in the construction process, and the training and workforce development opportunities in these trades. Students also learn the purpose and function of different hand tools, power tools, and equipment commonly used in construction. (Non-Credit Course)

Prerequisites/Corequisites:

Recommended:

Limits on Enrollment:

Transfer Credit:

Repeatability: Exempt From Repeat Provisions

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

**AS Degree:**      **Area**      Effective:      Inactive:

**CSU GE:**      **Transfer Area**      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 one or more of the different crafts and trades in the construction industry.
2. Describe one or more of the training and workforce development opportunities in the construction industry.
3. Identify common hand tools, power tools, and equipment used in the construction industry.

**Objectives:**

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

1. List the different building trades and crafts and what each does in the construction industry.
2. Describe the employment pathways in the construction industry.
3. Describe the design, permitting and building design processes.
4. Identify workforce training and education programs preparing for careers in the construction industry.
5. Explain the role of the Occupational Safety and Health Administration (OSHA) within the construction industry.
6. Explain the basic purpose and function of the most common hand tools, power tools, and equipment used in the construction industry.

**Topics and Scope:**

Topics and scope will vary depending upon student project.

I. Construction Trades

A. Types of trades and crafts

B. Residential, commercial, and public works

C. Energy efficiency, renewable energy, and fire resiliency in construction

## II. Workforce Training and Education for Careers in Construction

- A. High school career/vocational education courses
- B. Community and junior college career education programs
- C. Pre-apprenticeship programs
- D. Registered apprenticeship programs, union and non-union
- E. Bachelor's and Master's degree programs

## III. Tools and Equipment

- A. Hand tools
- B. Cordless power tools
- C. Corded power tools
- D. Personal protective equipment (PPE)
- E. Industrial trucks
- F. Heavy equipment

### Assignment:

1. Group discussion (4 - 8)
2. Hands-on learning activities (4 - 8)
3. Group presentation about a particular trade (4 - 8)
4. Individual presentation about a specific job within a trade (4 - 8)
5. Worksheets and online exercises (4 - 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.

Worksheets and online exercises

Problem solving  
15 - 35%

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

Hands-on learning activities

Skill Demonstrations  
15 - 35%

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

None

Exams  
0 - 0%

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

Attendance, participation, group and individual presentations, group discussion

Other Category  
50 - 70%

**Representative Textbooks and Materials:**  
Instructor and department prepared materials