

**NorthWest Arkansas Community College
Workforce & Economic Development Division
Construction Technology Department Course Outline**

Course Number and Title

CST1313 Materials of Construction (F, S)

Catalog Description

An introductory course that covers the materials and methods of construction. The course overviews the uses of wood, steel, and concrete and the different methods in how each is used. Additional topics include foundations, framing methods, and finish materials for interior and exterior use in buildings. Field trips to local sites share insights into how these materials are used on site.

Prerequisite

None

Credit Hours/Contact Hours/Load Hours

3/3/3

Target Audience / Transferability

Designed for students majoring in construction technology, this course presents the fundamentals of building materials, building codes, and techniques involved in residential and commercial construction projects. This course will transfer to some four-year institutions.

Student Learning Outcomes

Upon completing this course, the student should be able to:

- Understand the basic technical abilities of specific construction materials
- Remember and understand general construction terminology
- Understand the purposes of individuals, companies and agencies involved in the construction process
- Understand the appropriate utilization of construction materials according to their characteristic strengths
- Remember the standard breakdown in the Construction Specifications Institute (CSI)
- Understand the basic principles of sustainable construction

Topics

- Sustainability in Construction
- Soil in Construction
- Foundations
- Wood Construction
- Steel Construction
- Masonry in Construction
- Concrete in Construction
- Roofing Systems
- Flooring Systems

- Wall Systems
- Building Codes

Forms of Assessment

Exams that include terminology, identification, and interpretations of drawing and schematics, chapter quizzes, and homework assignments.

Rev. 8/2019