

Introduction to Construction Technology

Levels:	Grades
Units of Credit:	
CIP Code:	21.0109
Core Code:	38-01-00-00-020
Prerequisite:	None
Skill Test:	None

COURSE DESCRIPTION

Construction technology provides students with an understanding of how construction impacts their life, both socially and professionally. Students will explore and demonstrate an understanding of five elements of construction:

- Career opportunities
- Design
- Measurements
- Tools
- Materials

CORE STANDARDS, OBJECTIVES, AND INDICATORS

STANDARD 1

Students will investigate career opportunities in the construction industry, will explore the impact of construction technology on our society, and will be able to identify a variety of construction technologies, and will learn and use safety practices.

Objective 1: Identify occupations related to the construction industry.

Objective 2: State the differences between past and present methods of construction.

Objective 3: Identify a variety of systems, methods, and materials used for building construction technology.

Objective 4: Learn and use safe work habits and techniques.

STANDARD 2

Students will demonstrate an understanding of the benefits and limitations of construction design.

Objective 1: Identify design factors in Energy.

Objective 2: Identify design factors in Geography

Objective 3: Identify design factors in Materials.

Objective 4: Identify design factors in Material availability.

STANDARD 3

Demonstrate basic measurement principles that incorporate applied math applications related to construction practices.

Objective 1: Measure using standard construction tools.

Objective 2: Understand scale drawing.

Objective 3: Demonstrate estimating principles.

STANDARD 4

Students will identify and use common hand and power tools used in the construction industry.

Objective 1: Identify common hand tools used in the construction industry.

Objective 2: Identify common power tools used in the construction industry.

Objective 3: Understand and demonstrate safe practices regarding the use of these tools.

STANDARD 5

Students will identify the basic applications of specific materials and fasteners in construction systems.

Objective 1: Identify structural materials used in construction.

Objective 2: Identify exterior covering materials used in construction.

Objective 3: Identify interior covering materials used in construction.

Objective 4: Identify fasteners used in construction.