

# Architecture & Construction Course Descriptions

## Principles of Construction

TEA # 13004220

Course # 0481

**Grade Placement: 9-12**

**Credits: 1**

Principles of Construction is intended to provide an introduction and lay a solid foundation for those students entering the construction or craft skilled areas. The course provides a strong knowledge of construction safety, construction mathematics, and common hand and power tools. This course also provides communication and occupation skills to assist the student in obtaining and maintaining employment.

## Construction Technology I

TEA # 13005100

Course # 0482 & 2482

**Grade Placement: 10-12**

**Credits: 2**

**Recommended Prerequisite: Principles of Construction**

In Construction Technology I, students will gain knowledge and skills needed to enter the workforce as carpenters or building maintenance supervisors or to prepare for a postsecondary degree in construction management, architecture, or engineering. Students will acquire knowledge and skills in safety, tool usage, building materials, codes, and framing.

## Construction Technology II

TEA # 13005200

Course # 0484 & 2484

**Grade Placement: 11-12**

**Credits: 2**

**Prerequisite: Construction Technology I**

In Construction Technology II, students will gain advanced knowledge and skills needed to enter the workforce as carpenters, building maintenance technicians, or supervisors or to prepare for a postsecondary degree in construction management, architecture, or engineering. Students will build on the knowledge base from Construction Technology I and are introduced to exterior and interior finish out skills.

## Electrical Technology I

TEA # 13005600

Course # 0486

**Grade Placement: 10–12**

**Credit: 1**

**Recommended Prerequisite: Principles of Construction**

In Electrical Technology I, students will gain knowledge and skills needed to enter the workforce as an electrician or building maintenance supervisor, prepare for a postsecondary degree in a specified field of construction or construction management, or pursue an approved apprenticeship program. Students will acquire knowledge and skills in safety, electrical theory, tools, codes, installation of electrical equipment, and the reading of electrical drawings, schematics, and specifications.

## Electrical Technology II

TEA # 13005700

Course # 0488 & 2488

**Grade Placement: 11–12**

**Credit: 2**

**Prerequisite: Electrical Technology I**

**Recommended Prerequisite: Principles of Construction**

In Electrical Technology II, students will gain advanced knowledge and skills needed to enter the workforce as an electrician, a building maintenance technician, or a supervisor; prepare for a postsecondary degree in a specified field of construction or construction management; or pursue an approved apprenticeship program. Students will acquire knowledge and skills in safety, electrical theory, tools, codes, installation of electrical equipment, alternating current and direct current motors, conductor installation, installation of electrical services, and electric lighting installation.

## Practicum in Construction Technology

Course # 0489C & 2489C or 0489E & 2489E

TEA # 13005250 (First Time Taken)

TEA # 13005260 (Second Time Taken)

**Grade Placement: 12**

**Credit: 2**

**Prerequisite: Construction Technology II or Electrical Technology II**

In Practicum in Construction Technology, students will be challenged with the application of knowledge and skills gained in previous construction-related coursework. In many cases students will be allowed to work at a job (paid or unpaid) outside of school or be involved in local projects the school has approved for this class.