



Construction

Building Trades & Construction Sector

- Building Trades and Construction is a dynamic career pathway that will allow you to literally create the world around you.
- The Building and Construction Trades industry needs people who can work with their heads and hands to design and build office buildings, hospitals, shopping malls and housing communities.
- Students choosing a career in this industry sector should like team projects, can follow directions, enjoy working with their hands and thinking through projects.

Benefits of Taking This Pathway

NCCT has connections with trade unions throughout the region and often refer students to potential employers.

Seniors who meet the following requirements are eligible for a Career Pathways Cord at Graduation:

- Completion of a Pathway Program, with a B or better within the pathway.
- Earn an overall GPA of 2.0

Potential College Majors

- Construction Management
- Electrical & Electronic Engineer
- Mechanical Engineering
- Apprenticeship Programs—AA

Potential Careers

- Carpenters
- Glaziers
- Plumbers
- Building Inspectors
- Iron and Steel Workers
- Surveyors

Sites

- FHS
- VNHS

Construction

Pathway Courses

Construction 1

(FHS, VNHS)

Grades: 10-11 **Duration:** Year

HS Grad Req: Electives US/CSU a-g: G

Prerequisite: none

CTE Pathway (level): Construction (concentrator)

Course Description: This course is an introduction to the building materials, components, methods, and sequences in residential construction. It is designed to give students basic, entry-level skills in construction and related trades along with an overview of career opportunities available. Emphasis is placed on safety and proper use of both hand and power tools. This course provides students the experience of participating in the building of a shed along with various woodworking skill building projects.



Construction 2

(FHS, VNHS)

Grades: 11-12 **Duration:** Year

HS Grad Req: Electives **US/CSU a-g:** G (Elective)

Prerequisite: Construction 1

CTE Pathway (level): Construction (capstone)

Course Description: This course is comprehensive, building upon foundational skills learned in an introductory class. The course will focus on all aspects of the building process, including site layout/survey foundations, masonry, floor systems, framing, roofing, exterior finishing, electrical, HVAC, waste systems, and plumbing. The course introduces advanced construction concepts and practices in current use in the construction industry.

Continuing Pathways Post-Secondary

American River College:

- Carpenter Apprenticeship AA Degree
- Drywall Apprenticeship AA Degree
- Sheet Metal Apprenticeship AA Degree

CSU Sacramento:

- Construction Management BS Degree
- Electrical & Electronic Engineer BS Degree
- Mechanical Engineering BS Degree