

Instructor: Nathan Hampton

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PROGRAM DESCRIPTION: The Construction Management Class at CTEC is a year long class where students use concepts of carpentry and construction management to build a house. The course emphasizes carpentry skills but touches on all aspects of residential construction. This course covers math and other academic skills, but the students are also working in the shop or on the jobsite every day. This is a hands-on, working class. Students are expected to maintain their own personal tools and equipment, and work every day to complete the project. Along the way, the students will have opportunities to work with professionals in a variety of construction specialties. This class also participates in Skills USA which is a student organization that emphasizes career skills and readiness. Students may also choose to receive concurrent enrollment credit from Salt Lake Community College.



High School Credit: CTE credit or elective credit: Up to 4 credits
Concurrent Enrollment: Up to 12 college credits. Student is responsible to register and pay for concurrent enrollment classes at SLCC. For more information on these classes, see Appendix.
Skills Certification: Utah State Skills Certificate Test
Additional Opportunities: Students may experience youth leadership and service through SkillsUSA.
Requirements: Physical ability to be able to lift at least 30 lbs. Ability to understand and follow safety procedures. Be able to use power and pneumatic tools safely. Drawing and design skills would be helpful.
Recommended: Woodworking

COURSE DESCRIPTIONS:

CMGT 1410 Materials and Methods / Carpentry 1: Learn how to manage construction sites, materials, sub-contractors and develop essential skills. Students take an active role in research, green build and smart home techniques.

Construction Trades Foundation: A course that generally prepares individuals in the following areas: basic safety, introduction to blueprint reading, introduction to power tools, introduction to hand tools, and introduction to construction math. It also includes an industry overview, what to expect on the job and specific career opportunities.

CMGT 1320 Building Construction 1 / Carpentry 1: Students will learn the concepts of footings, foundations and flat work. Green build and traditional techniques will be taught. Students will lay out and construct floors, exterior and interior walls, be introduced to metal stud framing, and hang exterior doors and windows. Students will learn how to install, tape, and mud drywall. Sophisticated methods used to maintain a tight building envelope will be used. Stair and roof construction will be introduced.

CMGT 1330 Interiors Finishes / Carpentry 2: This course covers materials and selection that support the responsible use of natural resources. Subjects include hanging doors, installing base, casing, stair treads, skirts, and closet organizers. Installation of hardwood floors, handrails and stair caps will be taught. Students will also be introduced to the basics of installing tile floors and shower walls. Students will be taught how to install doorknobs and residential hardware.

Carpentry 2: An advanced carpentry program with a sequence of courses that prepares individuals to layout, fabricate, erect, install, and repair wooden structures and fixtures using hand and power tools. Includes advanced instruction in common systems of framing, construction materials, estimating, blueprint reading, concrete placing, siding, and mechanical systems. These courses are based on the current National Center for Construction Education and Research (NCCER) task list.

Costs/Fees for the 2023-2024 school year: Pending school board approval.

Career Possibilities:

Construction Rough Carpenter Finish Carpenter Roofer Drywall Installer and Finisher Civil Engineer Structural Engineer Soil Engineer General Contractor Remodeling Contractor Siding Installer Cement Finisher Construction Management Superintendent Project Manager Architect Draftsman





As a student of the CTEC Construction management program, I was introduced to many new concepts and details about the construction process and industry that I had never considered a possibility before. Some especially interesting construction processes we delved into were masonry, drywall and framing. These parts of the class were fun to learn about and to practice our skills. The program also taps into the specifics of the construction industry where we look at how to manage our time, take bids from different contractors to compare with one another, and consult with the instructor on estimates for our real world projects. We also learn how to construct specific plans and blueprints. Anonymous, 2021

The CTEC Construction Management program has been so fun and very eye opening. Every day I came to class, I learned something new. While taking this class, I feel we have learned aspects in every area of house building. I have learned countless life skills. Brayden Ellis, 2021

