CSTN - Construction Trades

CSTN 100 Fundamentals of Construction Technology: 3 Credits (2 Lec, 1 Lab)
CSTN 100 introduces students to means and methods of construction and the terminology and materials used in the construction industry. Students will learn how to properly use and maintain hand tools, power tools and personal protective equipment (PPE). Students will also be introduced to OSHA standards and how they apply to jobsite safety.

CSTN 105 Introduction to Woodworking: 3 Credits (1 Lec, 2 Lab)
CSTN 105 introduces students to wood building materials and techniques. Students will learn about necessary equipment and safety protocols for the trade and will demonstrate foundational woodworking skills through the construction of building elements such as walls, windows and door frames.

CSTN 120 Carpentry Basics and Rough-In Framing: 4 Credits (1 Lec, 3 Lab)
COREQUISITE: CSTN 100. CSTN 120 introduces students to step by step building processes. Students will be exposed to rough framing principles through a combination of lecture and lab. This course will also outline the job descriptions and typical responsibilities associated with a carpenter.

CSTN 122 Beginning Carpentry Lab: 4 Credits (4 Lab)
COREQUISITE: CSTN 105. CSTN 122 is a hands-on lab that builds upon content learned in CSTN 105 and CSTN 120. It enhances the skills needed to successfully perform the technical tasks of a carpenter, including framing skills to construct a basic platform framed structure.

CSTN 148 Blueprints, Codes, and Estimating: 3 Credits (3 Lec)
(F) This course will introduce blueprints and emphasize reading, scaling, analyzing and bidding from plans. Topics covered will include: line weights, styles and types; title block information, dimensions, structural shapes, auxiliary views, section views, detail prints, symbols, scaling, acronyms found in different industries, and other various blueprint information. Students will also be taught how to use plans to bid and price materials, visit the Fall Parade of Homes, and compare what’s on the page to what really gets built. Typically Taken – 1st Semester (Fall).

CSTN 160 Construction Concepts and Building Lab: 3 Credits (1 Lec, 2 Lab)
PREREQUISITE: CSTN 122. (Sp) In this lab students will be asked to perform multiple tasks demanded of a Carpenter on a jobsite throughout the progression of a building project. Work projects, tasks, and proficiencies will tie heavily into the construction, remodel, or special construction projects in the community.

CSTN 171 Site Prep, Foundations and Concrete Installation: 3 Credits (1 Lec, 2 Lab)
PREREQUISITE: CSTN 105 and CSTN 120. (Sp) CSTN 171 introduces students to building site preparation techniques including equipment and safety protocols, foundation preparation, and slab construction. Students will learn proper hands-on techniques for layout, placement, reinforcement, and curing of concrete.

CSTN 173 Arch Construct and Material: 3 Credits (3 Lec)
(Sp) Upon successful completion of this course, the student will be able to identify the origins of materials and the extraction, properties, processing, and assemblies of the basic materials of construction. Thorough working knowledge of materials can enhance a construction project and enlighten the client, designer, drafts-person or end user. A complete understanding of materials, methods, techniques, sequences, and procedures can unify a design and create timeless, contemporary elements.

CSTN 191 Special Topics: 1-4 Credits ()
Repeatable up to 7 credits.