CSTN - Construction Trades

CSTN 100  Fundamentals of Construction Technology: 3 Credits (2 Lec, 1 Lab)
CSTN100 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 jobsite safety.

CSTN 105  Introduction to Woodworking: 3 Credits (1 Lec, 2 Lab)
CSTN105 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. CSTN120 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. CSTN122 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)
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 173  Arch Construct and Material: 3 Credits (3 Lec)
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 ()

CSTN 248  Plans Examining II - IBC - Commercial Codes, Blueprint Reading, and Estimating: 3 Credits (3 Lec)
PREREQUISITE: CSTN 148, or consent of instructor, or approval of program director. This course will introduce blueprints and emphasize blueprint reading, scaling, analyzing, and estimating plan components for commercial and multiple-residence projects. Topics covered will include: building use and occupancy, special occupancy requirements, height and area limitations based on construction type, fire resistance and protection requirements, requirements for evacuation, accessibility for persons with disabilities, building systems (lighting, HVAC, plumbing, electrical and elevators), and structural components. Commercial building code criteria in the design process will be emphasized. Students will also be taught how to use plans to bid and price materials

CSTN 291  Special Topics: 1-4 Credits ()