

Construction (CST)

CST 110. Intro to Construction. 2.0 Credits. Class-1.0. Clinical-0.0.

Lab-2.0. Work-0.0

This course introduces construction terminology, materials, and practices found at a construction worksite. Emphasis is placed on common and innovative practices, methods, materials, and other related topics of the construction industry. Upon completion, students should be able to successfully identify various practices, methods, and materials used in the construction industry.

CST 111. Construction I. 4.0 Credits. Class-3.0. Clinical-0.0. Lab-3.0.

Work-0.0

This course covers standard and alternative building methods to include wall framing. Topics include safety and footings, foundations, floor framing systems, and wall framing systems commonly used in the construction industry. Upon completion, students should be able to safely erect all framing necessary to begin roof framing.

Prerequisites: Take WOL 110, minimum grade of C

CST 112. Construction II. 4.0 Credits. Class-3.0. Clinical-0.0. Lab-3.0.

Work-0.0

This course covers building methods and materials used to dry-in a building. Topics include safety, ceiling/roof framing applications, roof finishes, windows, and exterior doors. Upon completion, students should be able to safely erect different roof types and properly install windows and exterior doors, roofing, and exterior finish materials.

Prerequisites: Take CST 111

CST 150. Building Science. 3.0 Credits. Class-2.0. Clinical-0.0. Lab-2.0.

Work-0.0

This course introduces concepts and techniques for the design and interaction of the mechanical systems of high performance buildings. Topics include building envelope, heating, ventilation and air conditioning (HVAC), indoor air quality, lighting, plumbing and electrical. Upon completion, students should be able to understand building systems interaction and performance.

CST 241. Planning/Estimating I. 3.0 Credits. Class-2.0. Clinical-0.0.

Lab-2.0. Work-0.0

This course covers the procedures involved in planning and estimating a construction/building project. Topics include performing quantity take-offs of materials necessary for a building project. Upon completion, students should be able to accurately complete a take-off of materials and equipment needs involved in a construction project.

Prerequisites: Take One: BPR 130, MAT 121, or MAT 171

CST 242. Planning/Estimating II. 4.0 Credits. Class-3.0. Clinical-0.0.

Lab-2.0. Work-0.0

This course covers planning and estimating practices which are applicable to commercial construction. Emphasis is placed on planning and developing take-offs of materials, labor, and equipment in accordance with industry formats. Upon completion, students should be able to accurately complete take-offs and planning time lines necessary to complete a commercial structure.

Prerequisites: CST 241