

CONSTRUCTION TECHNOLOGY (TECO)

TECO 1010 — Introduction to Carpentry

Typically Offered: Fall, Spring

Credits: 2

Lecture hours: 1

Lab hours: 1

Introduction to Carpentry teaches site safety, construction math, proper material handling, hand and power tool identification and use, and workplace habits and attitudes.

TECO 1020 — Carpentry Concepts

Typically Offered: Fall

Credits: 4

Lecture hours: 2

Lab hours: 2

Carpentry Concepts teaches site safety, construction math, proper material handling, hand and power tool identification and use, workplace habits and attitudes.

TECO 1030 — Construction Print Reading

Typically Offered: Fall, Spring

Credits: 3

Lecture hours: 3

Construction Print Reading introduces the basic principles of print reading. This course will focus on print reading for both residential and light commercial construction. This class will teach students to read the drawings that are used to communicate information about buildings.

Prerequisites: TECO 1010 (may be taken concurrently)

TECO 1040 — Advanced Carpentry Concepts

Typically Offered: Fall, Spring

Credits: 4

Lecture hours: 2

Lab hours: 2

Advanced Carpentry Concepts teaches the layout of the construction site for the excavation of footings and foundations.

Prerequisites: TECO 1010 and TECO 1020 and TECO 1030

TECO 1050 — Interior Finishes

Typically Offered: Spring

Credits: 4

Lecture hours: 2

Lab hours: 2

Students are exposed to the carpentry of interior finishes for residential construction to meet the Utah Building Code. Students increase their knowledge of construction materials, blueprint reading, and estimating taught in other classes. Students are exposed to historical and traditional styles/methods of installation.

Prerequisites: TECO 1010 and TECO 1020 and TECO 1030

TECO 1060 — Exterior Finishes

Typically Offered: Fall

Credits: 4

Lecture hours: 2

Lab hours: 2

Exterior Finishes exposes students to the carpentry of exterior finishes for residential construction to meet the Utah Building Code. Students increase their knowledge of construction materials, blueprint reading, and estimating taught in other classes. Students learn about required clearances to install exterior-grade architectural millwork, siding, soffit, fascia, and trim details.

Prerequisites: TECO 1010 and TECO 1020 and TECO 1030 and TECO 1040 (may be taken concurrently)

TECO 1100 — Construction Math & Estimating

Typically Offered: Spring

Credits: 3

Lecture hours: 3

Construction Math and Estimating teaches estimation concepts that include take-offs, labor costs, equipment costs, markups, and overhead expenses. Using computer applications, students will learn how to compile a cost proposal from a set of plans. In addition, students will be exposed to a variety of math problems common in the building construction and design industries.

Prerequisites: TECO 1010 and TECO 1030

TECO 1205 — Cabinet Making

Typically Offered: Fall, Spring

Credits: 3

Lecture hours: 1

Lab hours: 2

This course is designed to provide students with a solid base of knowledge and skills relative to the architectural millwork, & cabinetmaking fields. Skills in traditional woodworking tools along with the safe operation of power equipment will be taught. Advanced instruction with sophisticated computer software and computer-operated CNC equipment are included.

TECO 1405 — Introduction to Woodworking

Typically Offered: Fall, Spring

Credits: 3

Lecture hours: 1

Lab hours: 2

Fundamentals of Woodworking is an introductory wood construction course with experience in milling, assembling, and designing wood projects. Emphasis is placed on layout and construction techniques. The instruction in the making of high-end furniture, including the various types of joinery and finishes will be covered. Students will learn how to identify and use hand tools common in woodworking.

TECO 1440 — Fundamentals of Fine Woodworking

Typically Offered: Spring

Credits: 3

Lecture hours: 1

Lab hours: 2

Fundamentals of Fine Woodworking prepares students for work in custom furniture and cabinet-making shops, covering design, drawing, material estimation, construction, and furniture finishing. Students will develop proficiency in using and maintaining both hand tools and power equipment for joinery and ornamentation. Instruction includes cutting various joints, woodturning, carving, bending, and applying marquetry or veneers. By the end of the course, students will have the knowledge, skills, and confidence to create high-quality furniture pieces that meet precise industry standards.

Prerequisites: TECO 1205 and TECO 1405