

CARPENTRY (CAR)

CAR 100 - Introductory Craft Skills

Credit Hours: 2, Contact Hours: 3

This course provides an introduction to essential construction skills. Through structured classroom and hands-on skill building, the student will be introduced to the construction industry, building materials, safety, hand and power tools, print reading, construction math, communication and employability skills. Group 2 course.

CAR 101 - Introduction to Carpentry

Credit Hours: 3, Contact Hours: 4

This course provides an introduction to residential carpentry. Through structured classroom and hands-on skill building, the student will learn about the construction industry, building materials, fasteners and adhesives, hand and power tools, introduction to print reading, and floor systems. Group 2 course.

Recommended Prerequisites: Placement into MTH 23 or higher, or co-enrollment in the recommended developmental math course. Placement into ENG 11/111 or higher, or co-enrollment in the recommended English course.

CAR 102 - Intro to Woodworking

Credit Hours: 3, Contact Hours: 4

This course is for the student that has a desire to experience woodworking in the area of basic cabinet and furniture. Techniques in the usage and maintaining of basic hand and power tools, understanding of how wood movement will affect design of an assembly, application of basic joinery, adhesives, and fasteners in the woodworking completion of this class establishes a foundation in which the student can build simple furniture and cabinets. Group 2 course.

Recommended Prerequisites: Students will greatly benefit from having competency up to MTH111.

CAR 103 - Construction Blueprint Reading

Credit Hours: 3, Contact Hours: 3

Students will learn the skills needed to read and understand construction drawings, as well as an understanding of manufacturers' literature of component parts used in buildings. Both commercial and residential construction materials and drawings are studied. Problems encountered in design development such as site limitations, zoning restrictions, utility availability, coordination of product specifications, adherence to building codes and life safety are explored. Group 2 course.

Recommended Prerequisites: Placement into MTH 111 or co-enrollment in MTH 08 or 23, placement into ENG 111 or co-enrollment in ENG 99/108.

CAR 104 - Woodworking Applications I

Credit Hours: 3, Contact Hours: 4

This course is for the student with a strong understanding of hand and power tools used in the craft of woodworking. A desire to expand their knowledge in the aspects involved with basic furniture and cabinet building is a must. Students will be constructing projects that, by design, will challenge those of the advanced beginner and intermediate skill abilities. Students will plan and implement the necessary steps to address the projects' hardware and joinery requirements. Group 2 course.

Required Prerequisites: CAR 102

Recommended Prerequisites: MTH 23

CAR 105 - Foundations and Framing

Credit Hours: 3, Contact Hours: 4

Through structured classroom and hands-on skill building, the student will learn foundation design, layout, concrete material forms, and applications. Floor, wall, ceiling and roof framing will be covered, as well as basic stair layout and construction. Group 2 course.

Recommended Prerequisites: Placement in MTH 23 or co-enrollment in the recommended developmental Math course, placement into ENG 11/111 or co-enrollment in the recommended English course.

CAR 121 - Exterior Construction

Credit Hours: 3, Contact Hours: 4

Through structured classroom and hands-on skill building, the student will learn about various roofing materials and applications, window and door installation, siding, cornice design and installation, gutters, downspouts, decks and fences. Group 2 course.

Recommended Prerequisites: Placement into MTH 23 or higher, or co-enrollment in the recommended developmental math course. Placement into ENG 11/111 or higher, or co-enrollment in the recommended English course.

CAR 125 - Interior Construction

Credit Hours: 3, Contact Hours: 4

Through structured classroom and hands-on skill building, the student will learn about drywall products, installation, and finishing, wall panels, tile, suspended ceilings, finish trim, flooring, and cabinet and countertop installation. Group 2 course.

Recommended Prerequisites: Placement in MTH 23 or co-enrollment in the recommended developmental Math course. Placement into ENG 11/111 or Co-enrollment in the recommended English Course.

CAR 135 - Site Layout and Formwork

Credit Hours: 3, Contact Hours: 4

Through structured classroom and hands-on skill building, the student will learn about trenching and excavation, foundations and slab-on-grade, vertical formwork, horizontal formwork and tilt-up wall panels. Group 2 course.