

## Course Descriptions

### Carpentry Career and Technical Certificate

The Vocational Certificate in Carpentry prepares students for a career in carpentry as a residential or small commercial carpenter, remodeler, trade foreman, project superintendent, or residential contractor. The program emphasizes both hands-on training and theory to acquire carpentry skills, and building knowledge that can lead to being your own boss. This 1200 clock hour program leads to certifications from the National Center for Construction Education and Research (NCCER), and the Pensacola State College Vocational Certificate in Carpentry.

Students learn to design and construct crafted, safe, healthy, comfortable, affordable, resource efficient, durable and resilient houses, based on current building science principles, sustainable design strategies and mainstream green building practices, using appropriate (climate specific) building materials, systems and technologies.

#### Program Outline

##### BCV0003C Introduction to Craft Skills 150 ch

Introduces the student to the proper use and care of hand and power tools, and OSHA compliant shop and jobsite safety practices. Students are provided training to obtain their 2-year CPR, First Aid and AED certification. Emphasis is placed on rigging, handling, and transport techniques to safely load, move, install, store, and care for building materials and jobsite equipment. Learn useful construction math skills to accurately calculate building material quantities, to measure and cut, and layout building structures, components, and other building projects. Reading and interpreting various types of construction drawings, and written specifications, is essential to properly constructing building projects, which is a skill learned only through practice, which this course provides.

##### BCV0112C Introduction to Carpentry 150 ch

Learn skills necessary to construct, erect, install, and repair residential and small commercial structures, and building projects, made from wood and other materials. Carpentry tasks involve working from construction drawings, performing construction math and geometry calculations, laying out building components, measuring, cutting and assembling structures or building projects. Learn to identify and select appropriate sustainable building materials, methods of construction, and systems and technologies for durable construction for specific climate zones.

##### BCV0123C Building Layout and Foundations 150 ch

Learn strategies to select appropriate building sites, techniques to properly orient and layout a building, and choose climate specific foundation types and construction. Also learn strategies and techniques to select and install foundations, water management systems, vapor barriers, concrete and block assemblies, and other foundation systems. Learn to perform building site and foundation building material takeoffs, and applying appropriate building codes and performance guidelines to and construct durable foundations.

