**BARTON COMMUNITY COLLEGE**

**COURSE SYLLABUS**

# **GENERAL COURSE INFORMATION**

Course Number: CRPT 1020

Course Title: Roof Framing

Credit Hours: 3

Prerequisite: CRPT 1010 Floors Walls Ceiling Framing

Division/Discipline: Workforce Training and Community Education/Carpentry

Course Description: This course covers various types of roofs and provides instruction for the layout of gable and hip roofs and includes both stick built and truss built roofs. The course includes topics such as: spacing and layout, ceiling joists, rafter layout and cutting, roof design, code safety, stick framing, pre-fab trusses, use of a framing square, roof sheathing, valleys, hips, gables, soffits, ventilation.

1. **INSTRUCTOR INFORMATION**

# **COLLEGE POLICIES**

Students and faculty of Barton Community College constitute a special community engaged in the process of education. The College assumes that its students and faculty will demonstrate a code of personal honor that is based upon courtesy, integrity, common sense, and respect for others both within and outside the classroom.

Plagiarism on any academic endeavors at Barton Community College will not be tolerated. The student is responsible for learning the rules of, and avoiding instances of, intentional or unintentional plagiarism. Information about academic integrity is located in the Student Handbook.

The College reserves the right to suspend a student for conduct that is determined to be detrimental to the College educational endeavors as outlined in the College Catalog, Student Handbook, and College Policy & Procedure Manual. (Most up-to-date documents are available on the College webpage).

Any student seeking an accommodation under the provisions of the Americans with Disability Act (ADA) is to notify Student Support Services via email at [disabilityservices@bartonccc.edu](mailto:disabilityservices@bartonccc.edu).

# **COURSE AS VIEWED IN THE TOTAL CURRICULUM**

This course is intended to prepare entry level employees or train incumbent workers in the carpentry/construction industry to perform identified job tasks to comply with federal regulations and industry standards. The course includes practical and classroom training. Upon successful completion of the course participants will be prepared to demonstrate identified skills to employers for qualification purposes.

# **ASSESSMENT OF STUDENT LEARNING**

Barton Community College is committed to the assessment of student learning and to quality education. Assessment activities provide a means to develop an understanding of how students learn, what they know, and what they can do with their knowledge. Results from these various activities guide Barton, as a learning college, in finding ways to improve student learning.

Course Outcomes, Competencies, and Supplemental Competencies:

1. Design various roof systems.
   1. Define the terms associated with roof framing.
   2. Estimate the materials used in framing and sheathing a roof.
2. Plan the proper construction of various roof systems.
   1. Identify the methods used to calculate the length of a rafter.
   2. Identify the various types of trusses used in roof framing.
   3. Identify the roof framing members used in gable and hip roofs.
   4. Identify various types of sheathing used in roof construction.
3. Erect a gable roof using trusses.
   1. Frame and sheathe a gable roof with an opening.
   2. Use a framing square and speed square in laying out a roof.
4. **INSTRUCTOR'S EXPECTATIONS OF STUDENTS IN CLASS**

# **TEXTBOOKS AND OTHER REQUIRED MATERIALS**

# **REFERENCES**

# **METHODS OF INSTRUCTION AND EVALUATION**

# **ATTENDANCE REQUIREMENTS**

1. **COURSE OUTLINE**