Department:

Building Trades

Course Description:

This course provides a practical study of roof styles, including gambrel, gable, shed, hips, and trusses. The course covers rafter and truss design, lay-out, and framing, as well as cornice, soffits, and gable end construction.

Course Competencies:

Upon completion of the course, the student should be able to:

1. Explain the terms associated with roof framing.
2. Identify the roof framing members used in gable and hip roofs.
3. Identify the methods used to calculate the length of a rafter.
4. Identify the various types of trusses used in roof framing.
5. Use a rafter framing square, speed square, and calculator in laying out a roof.
6. Identify various types of sheathing used in roof construction.
7. Frame a gable roof with vent openings.
8. Frame a roof opening.
10. Estimate the materials used in framing and sheathing a roof.

Course Content:

A. Roofing Materials  
B. Roof Types and Terms  
C. Hip Roofs  
D. The Intersecting Roof  
E. Trusses  
F. Cornice Terms and Design  
G. Soffit Terms and Design  
H. Types of Shingles  
I. Aluminum, Metal, and Tile Roofing

Learning Assessments:

Course competencies will be assessed by participation in class discussion and activities, examinations, assignments, and class attendance.
Instructional Materials:

Guidelines for Requesting Accommodations Based on Documented Disability or Medical Condition

It is the intention of Highland Community College to work toward full compliance with the Americans with Disabilities Act, to make instructional programs accessible to all people, and to provide reasonable accommodations according to the law.

Students should understand that it is their responsibility to self-identify their need(s) for accommodation and that they must provide current, comprehensive diagnosis of a specific disability or medical condition from a qualified professional in order to receive services. Documentation must include specific recommendations for accommodation(s). Documentation should be provided in a timely manner prior to or early in the semester so that the requested accommodation can be considered and, if warranted, arranged.

In order to begin the process all students must complete the “Disabilities Self-Identification Form” at this link: https://highlandcc.edu/pages/disability-services.

This form can also be accessed at the Highland Community College homepage under Students Services/Student Resources/Disability Service or by contacting the Disabilities Coordinator.