

Department:

Construction Technology

Course Description:

This course is a study of the exterior sheathings, windows, doors, siding, eave, and fascia. It includes installation, finish, and maintenance. The design style and installation of various types of windows and doors is covered. Experience in installing thresholds, weather stripping, locksets and overhead garaged doors is included.

Course Competencies:

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

1. Windows and Exterior Doors
 - a. Identify various types of fixed, sliding, and swinging windows.
 - b. Identify the parts of a window installation.
 - c. State the requirements for a proper window installation.
 - d. Install a pre-hung window.
 - e. Identify the common types of exterior doors and explain how they are constructed.
 - f. Identify the parts of a door installation.
 - g. Identify the types of thresholds used with exterior doors.
 - h. Install a pre-hung exterior door.
 - i. Identify the various types of locksets used on exterior doors and explain how they are installed.
 - j. Install a lockset.
2. Basic Stair Layout
 - a. Identify the various types of stairs.
 - b. Identify the various parts of stairs.
 - c. Identify the materials used in the construction of stairs.
 - d. Interpret construction drawings of stairs.
 - e. Calculate the total rise, number and size of risers, and number and size of treads required for a stairway.
 - f. Lay out and cut stringers, risers, and treads.
 - g. Build a small stair unit with a temporary handrail.

Course Content:

- A. Window Terms and Types
- B. Window Installation
- C. Door Fitting, Hanging, and Installation
- D. Types of Stairs
- E. Stair Framing & Design
- F. Stair Calculation and Layout
- G. Using Stock Stair Parts

Learning Assessments:

Competencies will be assessed by assignments, case problems, quizzes, chapter tests, hands-on projects, lab assignments, a midterm test, and a final test. The test can be in the objective format or in a problem solving format.

Instructional Materials:

Textbook: NCCER. (2014). *Carpentry Framing & Finish Level 2 Trainee Guide* (5th ed.). Boston, MA: Pearson. ISBN-13: 978-0133404302

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” on our [Disability Services website](#).

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.

A Note on Harassment, Discrimination and Sexual Misconduct

Highland Community College seeks to assure all community members learn and work in a welcoming and inclusive environment. Title VII, Title IX, and College policy prohibit harassment, discrimination and sexual misconduct. Highland Community College encourages anyone experiencing harassment, discrimination or sexual misconduct to talk to report to the Vice President for Student Services, the Human Resources Director or complete an [online report](#) about what happened so that they can get the support they need and Highland Community College can respond appropriately.

There are both confidential and non-confidential resources and reporting options available to you. Highland Community College is legally obligated to respond to reports of sexual misconduct, and therefore we cannot guarantee the confidentiality of a report, unless made to a confidential resource. Responses may vary from support services to formal investigations. As a faculty member, I am required to report incidents of sexual misconduct and thus cannot guarantee confidentiality. I must provide our Title IX coordinator with relevant details such as the names of those involved in the incident. For more information about policies and resources or reporting options, please review our [Equity Grievance Policy](#).