

# Advanced Construction Essentials

17-410-2 | Technical Certificate | 8 Credits

**Campus:** Contact your regional Northwood Tech customized training representative to discuss location needs

## Program Overview

The Advanced Construction Essentials certificate will provide students with advanced training built upon skills acquired from the Construction Essentials or Construction Foundations programs offered at Northwood Tech. Students will learn advanced framing of roofs, stairs, along with construction and installation of doors, windows and exterior finish materials, such as siding and roofing, in a hands-on skilled based learning environment.

## Inquire

For more information, please email Customized Training at Northwood Tech: [customizedtraining@northwoodtech.edu](mailto:customizedtraining@northwoodtech.edu)

## Program Outcomes

Upon completion of this certificate, completers will be able to:

- Use hand and power tools and equipment
- Apply industry recognized safety practices and procedures
- Analyze sustainable building practices
- Interpret construction drawings
- Interpret building codes
- Demonstrate industry building practices and material application

## Career Outlook

Typical positions available after completion include:

- Carpenter
- Construction Worker
- Carpentry Framer
- Interior/Exterior Finisher

## Related Programs

- Architectural Woodworking & Cabinetmaking
- Construction Essentials
- Construction Foundations
- Construction and Cabinetmaking

## Required Courses

Number	Course Title	Credits (cr.)
32410304	Advanced Construction Framing (WBL)*	4 cr.
32410353	Construction Framing 2*	<u>4 cr.</u>
<b>TOTAL CREDITS</b>		<b>8 cr.</b>

\* Requires a prerequisite and/or corequisite that must be completed with a grade point of 2.0 or better.

## Course Descriptions

### 32410304

#### Advanced Construction Framing (WBL) - Credits: 4

This is a lab/shop/theory application. This course provides instruction in current application techniques of various building materials as applied to construction work on residential/light commercial buildings. The course of study encompasses the procedures of appropriate safe skills and knowledge required to construct/install rafters, roofing, materials, siding, insulations, stairs, platforms, decks, floor coverings, wall coverings, and related materials. PREREQUISITE: 32410315 Construction Framing 2.

### 32410353

#### Construction Framing 2 - Credits: 4

This is a lab/theory course that covers the operations required in building layout and the framing of floors, walls, roofs, and stairs. The learner will learn the importance of building an energy-efficient home, and will be performing energy tests with diagnostic tools. Competencies are learned through lecture and actual hands-on applications. PREREQUISITES: 32410339 Print Reading for Building Construction, 32804325 Applied Technical Math 1, and COREQUISITE: 32410303 Construction Framing 1.