



CONSTRUCTION TECHNOLOGY

WHITEWATER CAREER CENTER



OVERVIEW

Construction Technology is a hands-on program. You will use math skills to solve problems and complete tasks. If you like to work with your hands, especially outdoors, and would like to be part of a crew that builds structures in the community, this is the program for you.



YOU WILL LEARN

- Construction from the ground up
- How to read technical drawings
- How to transform drawings into physical structures
- Beginning aspects of residential design and site work
- How to apply skills to school and community building projects



A TYPICAL STUDENT

The typical student is one that enjoys hands-on learning and has the solid math skills to be successful. There will be a significant emphasis on measurement and conversions at the beginning of the first-year program. These skills will be necessary through the second-year of the program, during further training, and on the job. Successful students have the patience and attention to detail to solve problems using the skills they have learned. They can work on projects independently or with other students. They can read technical drawings, check their work as needed, and stay on task without constant supervision. Safety is a primary focus, and students must follow OSHA guidelines to keep themselves and others safe.



GET YOURSELF READY

To be prepared, focus on doing well in algebra and geometry courses. Employment and admission into apprenticeship programs and specialty training programs after high school can be competitive. To increase your chances, do your best in all high school courses. The following courses will help prepare students for the Construction Technology career program, further education and training, and a career in the construction industry:

- Algebra I and II
- Geometry
- Introduction to Construction
- Technology courses





YOU WILL LEARN

- Construction Laborer & Helper
\$30,190
- General Maintenance & Repair Worker
\$36,170
- Construction Manager
\$86,630
- Construction & Building Inspector
\$56,040
- Construction Equipment Operator
\$42,900
- Cost Estimator
\$60,050

All career and salary information is cited from the Bureau of Labor Statistics.



YEAR ONE

Construction Technology I focuses on classroom and lab experiences involving the formation, installation, maintenance, and repair of buildings and structures. This program provides instruction in reading technical drawings and transforming those drawings into physical structures. The relationship of views and details, interpretation of dimension, transposing scale, tolerance, materials list, architectural plans, geometric construction, three dimensional drawing techniques, and sketching are presented as well as beginning aspects of residential design and site work. Students examine the design and construction of floor and wall systems and develop layout and floor construction skills. Blueprints and other professional planning documents are also covered.

Ivy Tech Dual College Credits

CONT 101	Introduction to Construction Technology
CONT 102	Construction Materials
BCOT 104	Floor and Wall Layout and Construction



YEAR TWO

Construction Technology II builds on the formation, installation, maintenance, and repair skills learned in year one. Information on materials, occupations, and professional organizations within the industry are covered. Students will develop basic knowledge, skills, and awareness of interior trim and the installation of drywall, moldings, interior doors, cabinets, and baseboard moldings. Students will also develop exterior finishing skills. The program includes instruction on the installation of cornices, windows, doors, and various types of sidings currently used in industry and on the design and construction of roof systems and the use of framing squares for traditional rafter and truss roofing. Year two students develop leadership skills and work as team leaders.

Industry Certifications

HBI (Home Builders Institute) Carpentry Basic Certification)

Ivy Tech Dual College Credits

BCOT 105	Roof Construction
BCOT 113	Interior Finishes
BCOT 114	Exterior Finishes



WHEN YOU FINISH

Upon completion of this program, you may continue your education in 2 and 4-year degree programs at the postsecondary level or enter employment in one of the many construction fields. You may also enter apprenticeship programs for specific construction trades.



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