

Construction

Construction

Diploma

Sioux City and Denison Campuses

Program Overview and Opportunities:

The Construction program provides students with the knowledge and skills needed for employment as a carpenter or concrete specialist. Study includes residential and commercial construction, with all phases explored and applied on a job site or in the lab. Specialized coursework includes drywall installation and finishing, blueprint reading, construction estimating, concrete stamping, and construction materials.

Graduates of the program may be employed in general carpentry work, commercial carpentry, or may specialize in one area such as finish carpentry. Career potential includes foreman of a construction company or owning your own construction company.

Another advantage of a WITCC Construction education is the accelerated rate of advancement that the graduates experience. Quite often Construction graduates enter into the field slightly above entry-level positions. Because of their educational background graduates quickly advance to crew leaders, foremen, and field supervisors. After gaining experience, many go on to own their own businesses because of their formal training and experience.

According to the Bureau of Labor Statistics, employment of carpenters is expected to increase as fast as the average for all occupations through the year 2014. The need for carpenters should grow as construction activity increases in response to demand for new housing and office and retail space, and for modernizing and expanding schools and industrial plants. (Occupational Outlook Handbook. Bureau of Labor Statistics 2006-2007.)



Construction Curriculum

Course #	Title	Credits
CON 136	Intro to Construction Shop*	1
CON 204	Basic Framing Techniques*	4
CON 216	Advanced Framing and Roofing	6
CON 366	Exterior Finishing*	4
MAT 772	Applied Math OR	
MAT	Math Elective	3
CON 136	Intro to Construction Shop* (spring entry)	1
CON 209	Intro to Drywall	1
CON 365	Advanced Drywall	1.5
CON 367	Interior Doors, Cabinets, and Millwork	2.5
CON 258	Wall Coverings and Coatings	1.5
CON 259	Floor Coverings and Coatings	1.5
CON 132	Footings and Foundations	3
CON 234	Concrete Specialties	3
COM 723	Workplace Communications* OR	
ENG/LIT/COM	English Elective	3
Program Total		35

* Denotes courses commonly articulated with area high schools.

Are You a Part-time Student?

See a program advisor for a list of available courses for part-time students and to develop an individualized plan of study.

Program Advisors

Robert Wilcke, AA Ext. 1473
Bldg. C, Room 110 wilcker@witcc.edu

Greg Strong, BS, BA, Division Chair
Ext. 1480 Room A111 strongg@witcc.edu

See course descriptions in the back of the catalog for more detailed information about course prerequisites and co-requisites.

The courses listed above are grouped in the order that they should be taken each semester. Please see a Construction program advisor to ensure correct course sequence.

Construction

Carpentry

Certificate
Sioux City Campus

Program Overview and Opportunities:

The Carpentry certificate prepares graduates for entry-level jobs in the construction industry. The latest in carpentry techniques and building materials are covered in classes.

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Greg Strong, BS, BA, Division Chair
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Room A111
strongg@witcc.edu

Carpentry Technician Certificate Curriculum

Course #	Title	Credits
CON 136	Intro to Construction Shop	1
CON 204	Basic Framing Techniques	4
CON 366	Exterior Finishing	4
CON 209	Intro to Drywall	1
CON 367	Interior Doors, Cabinets, and Millwork	2.5
MAT	Math General Education Elective	3
Program Total		15.5

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Drywall

Certificate
Sioux City and Denison Campuses

Program Overview and Opportunities:

With the knowledge obtained in the drywall and advanced drywall courses, graduates will be able to fasten drywall panels, tape, texture, and then prepare these panels for painting by taping and finishing joints and other imperfections.

Program Advisors

Robert Wilcke, AA
Bldg. C, Room 110
Ext. 1473
wilcker@witcc.edu

Greg Strong, BS, BA, Division Chair
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Room A111
strongg@witcc.edu

Drywall Certificate Curriculum

Course #	Title	Credits
CON 136	Intro to Construction Shop*	1
CON 209	Intro to Drywall	1
CON 365	Advanced Drywall	1.5
Program Total		3.5

* Denotes courses commonly articulated with area high schools.

Construction

Interior Finishing

Certificate
Sioux City Campus

Program Overview and Opportunities:

The Interior Finishing certificate helps prepare students to perform the finishing work within the home, installing doors, cabinets, flooring, etc. Interior finishing carpenters work for homebuilders, supply and install companies, or as independent contractors. The Intro to Construction Shop, Wall Coverings and Coatings, Floor Coverings and Coatings, Intro to Drywall, Advanced Drywall, and Interior Doors, Cabinets, and Millwork courses could also be taken for the individual looking for help with home improvement projects dealing with floor and wall coverings, drywall, as well as doors and cabinets.



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Bldg. C, Room 110
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Greg Strong, BS, BA, Division Chair
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strongg@witcc.edu

Interior Finishing Certificate Curriculum

Course #	Title	Credits
CON 136	Intro to Construction*	1
CON 209	Intro to Drywall	1
CON 365	Advanced Drywall	1.5
CON 367	Interior Doors, Cabinets, and Millwork	2.5
CON 258	Wall Coverings and Coatings	1.5
CON 259	Floor Coverings and Coatings	1.5
Program Total		9

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Concrete Specialties

Certificate
Sioux City Campus

Program Overview and Opportunities:

The Concrete Specialties Certificate helps students explore advanced and innovative ways of using concrete in the construction industry. It also allows for American Concrete Institute (ACI) concrete certification.

Concrete Specialties Certificate Curriculum

Course #	Title	Credits
CON 136	Intro to Construction Shop	1
CON 132	Footings and Foundations	3
CON 234	Concrete Specialties	3
	Program Total	7

Wall Framing and Roofing

Certificate
Sioux City Campus

Program Overview and Opportunities:

The content offers a background in woods, fasteners and materials, blueprint reading, framing of exterior and interior walls, doors, and window openings. Students will also be exposed to multiple types of rafter construction, roof framing and finishing, and steel framing in the residential and light commercial setting. Training to receive the 10-hour OSHA safety card is also completed with this certificate.

Wall Framing and Roofing Certificate Curriculum

Course #	Title	Credits
CON 136	Intro to Construction Shop	1
CON 204	Basic Framing Techniques	4
CON 216	Advanced Framing and Roofing	6
	Program Total	11

Program Advisors for both certificate programs listed on this page

Robert Wilcke, AA
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wilcker@witcc.edu

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