

2018-2019

SOUTHEAST
COMMUNITY
COLLEGE
NEBRASKA

BUILDING CONSTRUCTION TECHNOLOGY

Associate of
Applied Science
Degree

Certificate

MILFORD CAMPUS

www.southeast.edu/BuildingConstruction



The Building Construction Technology program provides comprehensive training in the field of construction. Students learn through hands-on experience and accompanying lectures. The program provides the most up-to-date vocational/technical construction training available. Students will study carpentry and cabinetry, residential and commercial construction, concrete and masonry construction, and gain drafting and estimating skills. The field of construction has many opportunities. Students will work alongside others and construct a house on the Milford Campus every other quarter.

General Education Requirements:

Contact your program advisor to select general education courses from each category which will meet your program's graduation requirements. See the General Education pages online for a complete list.

(One class from each area below; no two classes from the same area).

Oral Communications	4.5
Written Communications	4.5
Critical Thinking and Problem Solving	4.5
MATH1040 or higher (Recommended)	
Analytical, Quantitative, and Scientific Reasoning	
ECON1200 Personal Finance (Recommended)	4.5
Career and Life Skills	4.5
BSAD1010 Microsoft Applications I (Recommended)	

22.5 hours

Building Construction Technology Courses:

Course #	Course title	Credit hrs.
CNST1123	Concrete & Masonry Tools & Material I	3.0
CNST1124	Concrete & Masonry Tools & Material II	3.0
CNST1125	Concrete & Masonry Applications I	2.5
CNST1126	Concrete & Masonry Applications II	2.5
CNST1226	Tools & Materials I	3.0
CNST1227	Tools & Materials II	3.0
CNST1228	Construction Processes & Practices I	2.5
CNST1229	Construction Processes & Practices II	2.5
CNST1326	Residential Construction Drafting	8.0
CNST1328	Residential Construction Estimating	6.5
CNST1331	Commercial Construction Communications	3.0
CNST1430	Cabinetry and Carpentry Laboratory	5.0
CNST1433	Cabinetry and Carpentry Theory	7.5
CNST2532	Residential Construction Applications	9.5
CNST2634	Commercial Construction Drafting	5.5
CNST2636	Commercial Construction Estimating	6.5
CNST2643	Fundamentals of Structural Steel	3.0
WELD1190	O/A and GMAW Welding	1.5
ACFS2020	Career Development	1.5

79.5 hours

Graduate Earnings

Recent graduates report an average starting wage of \$16.50 per hour.



For more information contact:

Ron Petsch, Program Chair
402-761-8213, 800-933-7223 ext. 8213
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or the College Admissions Office
Milford 402-761-8243, 800-933-7223 ext. 8243

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Certificate in Masonry Construction:

The certificate is available for anyone who wants to learn basic masonry skills for laying block and brick masonry units. A grade of C or higher is required in all prerequisite courses.

Course #	Course title	Credit hrs.
CNST1123	Concrete & Masonry Tools & Material I	3.0
CNST1124	Concrete & Masonry Tools & Material II	3.0
CNST1125	Concrete & Masonry Applications I	2.5
CNST1126	Concrete & Masonry Applications II	2.5
		11.0 hours

General Education Requirements: Certificate

Contact your program advisor to select general education courses from each category which will meet your program's graduation requirements. See the General Education pages online for a complete list.

(One class from one of the three following areas).

Oral Communications, Written Communications,

Or Critical Thinking and Problem Solving

(Math1040 or higher) 4.5 hours

Certificate in Carpentry & Cabinet Making Construction:

The certificate provides relevant curriculum for training to do carpentry and wood construction work as well as the construction of wood cabinets.

Course #	Course title	Credit hrs.
CNST1226	Tools & Materials I	3.0
CNST1227	Tools & Materials II	3.0
CNST1228	Construction Processes & Practices I	2.5
CNST1229	Construction Processes & Practices II	2.5
CNST1430	Cabinetry and Carpentry Laboratory	5.0
CNST1433	Carpentry Theory	7.5
ACFS2020	Career Development	1.5
		25.0 hours

General Education Requirements: Certificate

Contact your program advisor to select general education courses from each category that will meet your program's graduation requirements. See the General Education pages online for a complete list.

(One class from the following area).

Critical Thinking and Problem Solving

MATH1040 or higher 4.5 hours



315

The number of jobs posted for Building Construction students/alumni on SCC's online employment services website last year. Demand for skilled workers is high.



Estimated Expenses

Nebraska Resident tuition/fee rate is \$69.50 per credit hour. Out-of-state tuition/fee rate is \$83.50 per credit hour. Graduation fee is \$25.

Housing is available at Beatrice and Milford campuses only. Tuition, books and fees are dependent upon classes taken each quarter.

Students should plan a budget that includes room, meals, clothing, laundry, medical care, recreation and entertainment, transportation, insurance, etc.

FIRST QUARTER

Tuition And Fees	\$1,077
Books	405
Tools and Supplies	1,045
Material Lab Fee	160
Total	\$2,687

SECOND QUARTER

Tuition And Fees	\$1,564
Books	285
Tools - Drafting Kit	100
Total	\$1,949

THIRD QUARTER

Tuition And Fees	\$1,182
Books	55
Total	\$1,237

FOURTH QUARTER

Tuition And Fees	\$869
Books	175
Total	\$1,044

FIFTH QUARTER

Tuition And Fees	\$1,425
Books	385
Tools - Welding Equipment	120
Total	\$1,930

SIXTH QUARTER

Tuition And Fees	\$1,077
Books	265
Total	\$1,342
Total Estimate For Program	\$10,189

Basic Tools for Building Construction

Required To Enter 1st Quarter

- * Safety Glasses - must meet Z87 specs.
- Approved Leather Shoes/Boots for Construction
- * Hard Hat - OSHA approved for construction work
- * Construction Master Calculator v3.1
- Carpenter's Level, 24" aluminum
- 1 - Tape Measure, Stanley, 33-425 (25')
- * Hearing Protection
- 1 - Jump Drive Storage Device (1) GB min.
- 1 - Hammer 16 oz., Plumb OAN 1 1/2"
- 1 - Combination Square (not plastic) Stanley 46-123
- 1 - Framing Square, Stanley 45-011 (must have octagon scale, rafter table, Essex board measure, brace table)
- 1 - Coping Saw, Stanley 15-106, 6 3/4"
- 1 - Block Plane, Stanley 12-960 (low angle)
- 4 - Chisels, Stanley (1/4", 1/2", 3/4", 1")
- 1 - Scratch Awl
- 1 - Oilstone, Large Carborundum (reversible)
- 1 - Nail sets, 1/32", 2/32", 3/32"
- 1 - Putty Knife, 1-1/2"
- 1 - Utility Knife, retractable, with extra blades
- 1 - Chalk Box, 100' Irwin
- 1 - Compass/Scriber

- 1 - Sliding T-bevel, (plastic or wood handle)
- 1 - Screwdriver, six-in-one with interchangeable bits
- 1 - Nail Apron or Leather Pouches on Web belt
- 1 - Set Drill Bits (1/16", 5/64", 3/32", 1/8", 3/16", 1/4") min.
- 1 - 1/2" Cordless Drill, Dewalt 20V or higher ariable Speed, Forward/Reverse, DCD796D2
- 1 - Set, Screwdriver Bits for 3/8" Drill incl. #1, #2 Phillips, Standard option, #25 Torx & #2 Square
- 1 - Pair Square Gauges
- 1 - Needle Nose Pliers
- 1 - 4" Tapered Drywall Knife (not plastic)
- 1 - 6" Drywall Knife (not plastic)
- 1 - Pliers, Vise-Grip or Side Cutter Pliers
- 1 - Pocket Plane Stanley Surfform/Drywall Rasp
- 1 - 25' Extension Cord with Optional Multiple Ends and GFCI, (12-3) or (14-3) Wire
- 1 - Flatbar Nail Puller (Wonderbar), Stanley 55-515
- 1 - Cats Claw Nail Puller (Sheeps Foot)
- 1 - Foam Drywall Sanding Block (Sandflex) med. grit
- * 1 - #5 and #9 VIX Bit
- 1 - 1 1/4 x 8 Combination Countersink Stanley Screwmate
- 1 - Set Speedbor Wood Bits, 6 pc. set, 3/8"-1"
- 9-Piece standard hex set

Router bits with 1/4" shank

- 1 - 1/2" Straight Bit
- 1 - 45 Degree chamfer with bearing guide
- 1 - Flush cut laminate bit with bearing guide
- 1 - 8 Degree bevel bit with bearing guide
- 1 - 1/4" Round over with bearing guide

Optional Tools For 1st Quarter

- 1 - Torpedo level - 9"
- 1 - Speed Square
- 1 - Hacksaw
- 1 - 100' Steel Tape
- 1 - 10" Adjustable Wrench
- 1 - Hand Crosscut Saw, either a (20"), 8-11 pt. or a (26"), 8-11 pt.
- 1 - 48" Level
- 1 - Framing Hammer 20-22 oz.
- 1 - Sanding Block (wood, rubber or plastic)

Supplies Required For 2nd Quarter

- * Drafting Kit

Supplies Required For 5th Quarter

- * ARC Welding Helmet - with #10 lens & 2 clear plastic lenses
- * Oxy-Fuel Face Shield - with #5 or #6 lens
- * A-87 Approved Safety Glasses w/Side Shields
- * Chipping Hammer with Brush or Chipping Hammer and Wire Brush
- * Welding Gloves

* May be purchased at the Campus Store.