



BUILDING CONSTRUCTION TECHNOLOGY

Associate of Applied Science Degree
Certificate

MILFORD CAMPUS

www.southeast.edu/BuildingConstruction



Our 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/or masonry construction, and gain drafting and estimating skills. The field of construction has many opportunities. Students will work alongside others and construct a house every other quarter.



Students in the Building Construction Technology program take part in learning activities related to concrete, masonry, carpentry, drafting, estimating, cabinet making, and house

construction. A grade of "C" or higher is required in CNST prerequisite courses for graduation from this program.

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	8.5
CNST1328	Residential Construction Estimating	6.5
CNST1331	Commercial Construction Communications	3.0
CNST1430	Cabinetry and Carpentry Laboratory	5.0
CNST1433	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
BSAD1070	Customer Service	4.5
WELD1186	Building Construction Welding	1.5
ACFS2020	Career Development	2.5

85.5 hours

Graduate Earnings

Recent graduates report an average starting wage of \$14.70 per hour.



For more information contact:

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or the College Admissions Office
Milford 402-761-8243, 800-933-7223 ext. 8243

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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 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
ENGL1010 or higher	
Mathematics	4.5
MATH1040 or higher	
Social Science	4.5
Computer Technology	4.5
BSAD1010 Microsoft Applications I	
	22.5 hours

Certificate in Masonry Construction:

The certificate is available for anyone wanting 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, Mathematics 4.5 hrs

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
BSAD1070	Customer Service	4.5
ACFS2020	Career Development	2.5
		30.5 hours

General Education Requirements: Certificate

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(One class from the following area)
Mathematics 4.5 hours



315

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

Estimated Expenses

To determine overall costs, students should plan a budget that includes room, meals, clothing, laundry, medical care, recreation and entertainment, transportation, insurance, etc.

Nebraska Resident tuition rate is \$65.50 per credit hour. Out-of-state tuition rate is \$79.50 per credit hour. Student fee is \$2 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.

FIRST QUARTER

Tuition And Fees	\$1,047
Books	400
Tools and Supplies	865
Material Lab Fee	150
Total	\$2,462

SECOND QUARTER

Tuition And Fees	\$1,519
Books	250
Tools - Drafting Kit	65
Total	\$1,834

THIRD QUARTER

Tuition And Fees	\$1,148
Books	215
Total	\$1,363

FOURTH QUARTER

Tuition And Fees	\$1,148
Books	125
Total	\$1,273

FIFTH QUARTER

Tuition And Fees	\$1,384
Books	350
Tools - Welding Equipment	120
Total	\$1,854

SIXTH QUARTER

Tuition And Fees	\$1,047
Books	260
Total	\$1,307
Total Estimate For Program	\$10,093

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 variable 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" Drywall Knife (not plastic)
- 1 - 6" Drywall Knife (not plastic)
- 1 - Pliers, Vise-Grip or Side Cutter Pliers
- 1 - Pocket Plane Stanley Sunform/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 (Sheep 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.