



# BUILDING CONSTRUCTION TECHNOLOGY

Associate of Applied Science Degree  
Certificate

MILFORD CAMPUS

[www.southeast.edu/BuildingConstruction](http://www.southeast.edu/BuildingConstruction)



*This program provides comprehensive training in the field of construction, taught through the means of hands-on experience and accompanying lectures. We provide the most up-to-date vocational/technical construction training available from a community college. 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.

## Graduate Earnings

Recent graduates report an average starting wage of \$15.60 per hour.



## Building Construction Technology Courses:

| Course # | Course title                                   | Credit hrs         |
|----------|--|--------------------|
| CNST1123 | Concrete & Masonry Tools & Material I          | 3.5                |
| CNST1124 | Concrete & Masonry Tools & Material II         | 3.5                |
| CNST1125 | Concrete & Masonry Applications I              | 3.0                |
| CNST1126 | Concrete & Masonry Applications II             | 3.0                |
| CNST1130 | 10-Hour OSHA Training                          | 1.0                |
| CNST1223 | Residential Blueprint Reading                  | 3.0                |
| CNST1226 | Tools & Materials I                            | 4.0                |
| CNST1227 | Tools & Materials II                           | 4.0                |
| CNST1228 | Construction Processes & Practices I           | 2.5                |
| CNST1229 | Construction Processes & Practices II          | 2.5                |
| CNST1326 | Residential Construction Drafting Laboratory   | 2.5                |
| CNST1327 | Residential Construction Drafting Theory       | 5.0                |
| CNST1328 | Residential Construction Estimating Laboratory | 2.5                |
| CNST1329 | Residential Construction Estimating Theory     | 5.0                |
| CNST1331 | Commercial Construction Communications         | 3.0                |
| CNST1430 | Cabinetry and Carpentry Laboratory             | 6.5                |
| CNST1433 | Carpentry Theory                               | 10.0               |
| CNST2532 | Residential Construction Applications          | 8.0                |
| CNST2537 | Residential Construction Principles            | 2.0                |
| CNST2634 | Commercial Construction Drafting Laboratory    | 2.0                |
| CNST2636 | Commercial Construction Estimating Laboratory  | 2.5                |
| CNST2639 | Commercial Construction Drafting Theory        | 5.0                |
| CNST2641 | Commercial Construction Estimating Theory      | 5.0                |
| CNST2643 | Fundamentals of Structural Steel               | 3.0                |
| BSAD1070 | Customer Service                               | 4.5                |
| WELD1186 | Building Construction Welding                  | 1.5                |
| ACFS2020 | Career Development                             | 2.5                |
|          |  | <b>100.5 hours</b> |

## 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: (A.A.S. degree)

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  | 3.5        |
| CNST1124 | Concrete & Masonry Tools & Material II | 3.5        |
| CNST1125 | Concrete & Masonry Applications I      | 3.0        |
| CNST1126 | Concrete & Masonry Applications II     | 3.0        |
| CNST1130 | 10-Hour OSHA Training                  | 1.0        |
|          |  | 14.0 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 for a complete list.

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

|  |           |
|--|-----------|
| Oral Communications, Written Communications, Mathematics | 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 |
|----------|---------------------------------------|------------|
| CNST1130 | 10-Hour OSHA Training                 | 1.0        |
| CNST1223 | Residential Blueprint Reading         | 3.0        |
| CNST1226 | Tools & Materials I                   | 4.0        |
| CNST1227 | Tools & Materials II                  | 4.0        |
| CNST1228 | Construction Processes & Practices I  | 2.5        |
| CNST1229 | Construction Processes & Practices II | 2.5        |
| CNST1430 | Cabinetry and Carpentry Laboratory    | 6.5        |
| CNST1433 | Carpentry Theory                      | 10.0       |
| BSAD1070 | Customer Service                      | 4.5        |
| ACFS2020 | Career Development                    | 2.5        |
|          |                                       | 40.5 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 for a complete list.

(One class from the following area).

|             |           |
|-------------|-----------|
| Mathematics | 4.5 hours |
|-------------|-----------|

# 634

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 \$61.50 per credit hour. Out-of-state tuition rate is \$75.50 per credit hour. Student fee is \$1.50 per credit hour. Graduation fee is \$25. Housing is available at Beatrice and Milford campuses only. Quarterly tuition, books and fees are dependent upon classes taken.

### FIRST QUARTER

|                    |                |
|--------------------|----------------|
| Tuition And Fees   | \$1,292        |
| Books              | 445            |
| Tools and Supplies | 738            |
| Material Lab Fee   | 155            |
| <b>Total</b>       | <b>\$2,630</b> |

### SECOND QUARTER

|                      |                |
|----------------------|----------------|
| Tuition And Fees     | \$1,418        |
| Books                | 225            |
| Tools - Drafting Kit | 53             |
| <b>Total</b>         | <b>\$1,696</b> |

### THIRD QUARTER

|                  |                |
|------------------|----------------|
| Tuition And Fees | \$1,323        |
| Books            | 225            |
| <b>Total</b>     | <b>\$1,548</b> |

### FOURTH QUARTER

|                  |                |
|------------------|----------------|
| Tuition And Fees | \$914          |
| Books            | 125            |
| <b>Total</b>     | <b>\$1,039</b> |

### FIFTH QUARTER

|                           |                |
|---------------------------|----------------|
| Tuition And Fees          | \$1,638        |
| Books                     | 350            |
| Tools - Welding Equipment | 116            |
| <b>Total</b>              | <b>\$2,104</b> |

### SIXTH QUARTER

|                                   |                 |
|-----------------------------------|-----------------|
| Tuition And Fees                  | \$1,166         |
| Books                             | 300             |
| <b>Total</b>                      | <b>\$1,466</b>  |
| <b>Total Estimate For Program</b> | <b>\$10,483</b> |

## 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 11½"
- 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 - 3/8" Cordless Drill, Dewalt 18V or higher variable Speed, Forward/Reverse
- 1 - Set, Screwdriver Bits for 3/8" Drill incl. #1, #2 Phillips, Standard option, #25 Torx & #2 Square
- \* 1 - Architects Scale
- 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 - Hex T-41 Template
- \* 1 - Eraser Shield
- \* 1 - No. T-30 Timely Template
- \* 1 - 977101 Circle Template
- \* 1 - T-36 Plumbing Template
- 1 - 25' Extension Cord with Optional Multiple Ends and GFCl, (12-3) or (14-3) Wire

### Required For 1st Quarter

- 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 - 1¼ x 8 Combination Countersink Stanley Screwmate
- 1 - Set Speedbor Wood Bits, 6 pc. set, 3/8"-1"
- 1 - Package White Paper Cloths (available in Automotive Parts, SCC)

### 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 bookstore.