

# BUILDING TECHNOLOGY

Building Construction Technology is a program that will prepare you to enter the growing construction industry. Your hands-on education will encompass project management, sustainable (green) building, construction law, blueprint reading, basic surveying, use of wood building materials, concrete work, and weatherization, and masonry, correct use of hand and power tools, safety procedures, math skills, painting, and communication skills to help you work with both colleagues and clients.

## Graduation Requirements

**Certificate in Building Trades:** A cumulative GPA of 2.0 or higher. A minimum of 9 credits earned toward the certificate must be completed at SENMC. Individual academic program may have additional requirements.

**AAS in Building Technology:** ENGL 1110G Composition I with a C- or higher; placement into college-level math and reading courses or completion of developmental courses with a C- or higher; cumulative GPA of 2.0 or higher. A minimum of 15 of the 60 credits for the associate's degree must be completed at SENMC. Individual academic programs may have additional requirements. Total Credits Required for Degree: (60)

- Building Technology - Associate of Applied Science (<https://senmc-public.courseleaf.com/academic-programs/associate-degree-certificate-programs/building-technology/building-technology-aas/>)
- Building Trades - Certificate of Completion (<https://senmc-public.courseleaf.com/academic-programs/associate-degree-certificate-programs/building-technology/building-trades-certificate-completion/>)

### BCT 100 Building Trades I 8 Credits (8)

Equipment and general safety. Human relations, building construction surveying, footings, foundation form work, framing, sheathing, insulation. Basic electrical wiring and plumbing. Classroom instruction, on-the-job training, and problem solving. (2+12P)

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### BCT 101 Introduction to Construction I 2 Credits (2)

Basic safety, including personal protective equipment, how to perform basic construction tasks safely, and what to do if an accident occurs. Includes basic construction methods.

**Corequisite(s):** BCT 102; BCT 103

**Repeatable:** up to 2 credits

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### BCT 102 Introduction to Construction II 2 Credits (2)

Introduction to power and hand tools, blueprints, and basic rigging hardware and techniques.

**Corequisite(s):** BCT 101; BCT 103

**Repeatable:** up to 2 credits

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### BCT 103 Introduction to Construction Laboratory 3 Credits (3)

Provides students the opportunity to practice skills they have acquired in BCT 101 and BCT 102. It includes task-oriented projects in which students can apply many of the skills and knowledge that have been presented throughout the National Center for Construction and Education Research (NCCER) Carpentry Program.

**Corequisite(s):** BCT 101; BCT 102

**Repeatable:** up to 3 credits

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### BCT 104 Woodworking Skills I 3 Credits (3)

Use and care of hand tools and elementary power tools, safety procedures, and supervised project construction. (1+4P)

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### BCT 105 Woodworking Skills II 3 Credits (3)

Advanced woodworking skills to include use of advanced power tools, power tool safety, and supervised construction. (1+4P)

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### BCT 110 Blueprint Reading for Building Trades 4 Credits (4)

Same as DRFT 151. (2+4P)

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### BCT 118 Math for Building Trades 3 Credits (3)

Geometry, algebra, arithmetic, and basic trigonometry pertaining to mathematical applications in the building trades field.

**Prerequisite(s):** CDDM 103 N

**Crosslist:** OEET 118, DRFT 118

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### BCT 200 Building Trades II 8 Credits (8)

Continuation of BCT 100: roofing; exterior and interior finish; masonry; door, window, and cabinet installation. (2+12P)

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### BCT 221 CO-OP I 3 Credits (3)

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### BCT 255 Special Topics 6 Credits (6)

Topics to be announced in the Schedule of Classes.

**Repeatable:** up to 12 credits

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### BCT 290 Special Problems in Building Technology 1-4 Credits

Individual studies in areas directly related to building technologies.

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