

BUILDING CONSTRUCTION TECHNOLOGY

Associate in Applied Science • Certificate



While never losing sight of ever-changing materials, methods, and technology associated with the construction field, the Building Construction Technology program focuses on fundamental skills in residential/commercial construction, and broad familiarity with methods, standards, and codes commonly associated with the industry.

Students gain experience through:

- Classroom study, interpretation of construction documents, print reading, sketches, mock-ups, cost estimates, and live projects.
- Concentration on core communication, construction skills and progression at an individual rate matching individual growth. Fundamental construction skills are assessed periodically through competency testing.
- Assigning projects based on student abilities to allow project time to more closely follow job-site practices.
- Establishing a working ePortfolio of growth and accomplishments as an eResume, illustrating strength, commitment, and focus prospective employers seek.

Graduates may pursue careers in:

- Residential, light commercial, institutional, or heavy construction
- Building materials supply
- Prefabrication shops for modular units or custom cabinetry

With additional experience:

- Project engineer/manager
- Self-employment or general contracting
- Building inspection
- Design
- Code enforcement

Degree Requirements In-House Track

| Semester I | | Credit Hours |
|---------------------------------------|--|--------------|
| BCT 101 ** | Introduction to Hand and Power Tool Safety | 3 |
| BCT 142 | Building Concepts I | 3 |
| BCT 143 | Building Concepts II | 3 |
| BCT 126 | Construction Site Surveying | 2 |
| MAT ___ * | Select <u>one</u> of the following: | 3 |
| | MAT 100 Intermediate Algebra | |
| | MAT 104 Technical Mathematics | |
| ENG ___ * | Select <u>one</u> of the following: | |
| | ENG 101 College Writing | 3 |
| | ENG 105 College Writing Seminar | (4) |
| OHS 111 | OSHA 10-Hour Course in Construction | 1 |
| | | |
| Semester II | | |
| BCT 144 | Building Concepts III | 3 |
| BCT 145 | Building Concepts IV | 3 |
| BCT 180 | Introduction to Building Science | 3 |
| ___ | Elective: Humanities or Social Science | 3 |
| | | |
| Summer Semester | | |
| BCT ___ | Select <u>one</u> of the following: | |
| | BCT 197 Internship | 3 |
| | BCT 297 Externship | (3) |
| | BCT 298 Capstone | (3) |
| | Elective (choose from: BCA 120, BUS 101, BUS 110, BUS 145, CAD 110, COM 100 or PHI 111) | (3) |
| | | |
| Semester III | | |
| BCT 205 | Interior Finish I | 5 |
| BCT 152 | Construction Document Reading & Cost Estimating | 3 |
| ___ | Approved writing course (see catalog) | 3 |
| ___ | Elective: Humanities or Social Science | 3 |
| | | |
| Semester IV | | |
| BCT 128 | Basic Strength of Materials | 2 |
| BCT 255 | Interior Finish II | 5 |
| BCT 251 | Construction Business & Site Management | 2 |
| ___ | Elective: Humanities or Social Science | 3 |
| ___ | Elective: Mathematics or Science | 3-4 |
| | | |
| Total Credit Hour Requirements | | 61-63 |

Certificate Requirements

| Semester I | | Credit Hours |
|---------------------------------------|---|--------------|
| BCT 101 ** | Introduction to Hand and Power Tool Safety | 1 |
| BCT 142 | Building Concepts I | 3 |
| BCT 143 | Building Concepts II | 3 |
| BCT 126 | Construction Site Surveying | 2 |
| MAT ___ * | Select <u>one</u> of the following: | 3 |
| | MAT 100 Intermediate Algebra | |
| | MAT 104 Technical Mathematics | |
| OHS 111 | OSHA 10-Hour Course in Construction | 1 |
| | | |
| Semester II | | |
| BCT 128 | Basic Strength of Materials | 2 |
| BCT 144 | Building Concepts III | 3 |
| BCT 145 | Building Concepts IV | 3 |
| BCT 180 | Introduction to Building Science | 3 |
| ENG ___ * | Select <u>one</u> of the following: | |
| | ENG 101 College Writing | 3 |
| | ENG 105 College Writing Seminar | (4) |
| | | |
| Total Credit Hour Requirements | | 27-28 |



Office of Admissions

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**Placement determined by assessment test scores and/or prior college coursework*

*** Students must successfully complete BCT 101 prior to participation in any other BCT course.*

BUILDING CONSTRUCTION TECHNOLOGY JOBSITE

Associate in Applied Science



The Building Construction Technology Jobsite degree is a joint effort of residential and commercial construction companies and Central Maine Community College. This program provides students with a two-year program alternating classroom and laboratory training with paid, on-the-job experience.

Students learn tools necessary to improve competitive capacity through comprehensive, hands-on curriculum. Students in the Building Construction Technology Program focus on fundamental skills in residential/commercial construction, and broad familiarity with methods, standards, and codes commonly associated with the industry. Through the Jobsite Track students gain experience by alternating between:

- Classroom and laboratory study including interpretation of construction documents, print reading, sketches, mock-ups, cost estimates, live projects, and more
- Paid on-the-job experience on a construction jobsite with an approved, professional construction company

Graduates may pursue careers in:

- Residential, light commercial, institutional, or heavy construction
- Building materials supply
- Prefabrication shops for modular units or custom cabinetry

With additional experience:

- Project engineer/manager
- Self-employment or general contracting
- Building inspection
- Design
- Code enforcement

Degree Requirements Jobsite Track

| Semester I (16-weeks) | | Credit Hours |
|---------------------------------------|--|--------------|
| BCT 101 ** | Introduction to Hand & Power Tool Safety | 1 |
| BCT 142 | Building Concepts I | 3 |
| BCT 143 | Building Concepts II | 3 |
| BCT 126 | Construction Site Surveying | 2 |
| MAT ___* | Select <u>one</u> of the following: | 3 |
| | MAT 100 Intermediate Algebra | |
| | MAT 104 Technical Mathematics | |
| ENG ___* | Select <u>one</u> of the following: | |
| | ENG 101 College Writing | 3 |
| | ENG 105 College Writing Seminar | (4) |
| OHS 111 | OSHA 10-Hour Course in Construction | 1 |
| Semester II (1st 8 weeks) | | |
| BCT 144 | Building Concepts III | 3 |
| ___ | Elective: Humanities or Social Science | 3 |
| ___ | Elective: Humanities or Social Science | 3 |
| Semester II (2nd 8 weeks) | | |
| BCT 185 | Field Experience I | 4 |
| Summer Semester (1st 7 weeks) | | |
| BCT 154 | Millwork I | 5 |
| Summer Semester (2nd 4 weeks) | | |
| BCT 186 | Field Experience II | 2 |
| Semester III (1st 8 weeks) | | |
| BCT 285 | Field Experience III | 4 |
| Semester III (2nd 8 weeks) | | |
| BCT 152 | Construction Document Reading & Cost Estimating | 3 |
| BCT 200 | Structural Analysis I | 3 |
| ___ | Approved writing course (see catalog) | 3 |
| Semester IV (1st 8 weeks) | | |
| BCT 251 | Construction Business & Site Management | 2 |
| ___ | Elective: Humanities or Social Science | 3 |
| ___ | Elective: Mathematics or Science | 3-4 |
| Semester IV (2nd 8 weeks) | | |
| BCT 286 | Field Experience IV | 4 |
| Total Credit Hour Requirements | | 62-63 |



**Placement determined by assessment test scores and/or prior college coursework
 ** Students must successfully complete BCT 101 prior to participation in any other BCT course.*



Building Construction Technology Jobsite Track Degree Prerequisites/Preregistration:

Students must place in ENG 101 or 105 and MAT 100. Students who do not place into these courses, will be admitted into the Jobsite Track while taking remedial courses, but will not be placed with an employer until remedial coursework is completed. Students must obtain a construction employer. Companies may request a criminal background check and/or drug testing. Employers often require students hold a current and valid driver's license free from "current major" violations. Please see catalog for full requirements.

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