



Building and Construction Technology Program

Department of
Environmental Conservation
University of Massachusetts Amherst

Building and Construction Technology provides students with an unrivaled university education (offering a B.S., BCT Minor, Thesis M.S., Professional M.S., Ph.D. and online courses) that prepares its graduates for rewarding careers in Building Design, Construction and Materials Technology – part of our nation's largest industries.

The curriculum is based on the study of science, technology and management guided by the principles of resource efficiency and environmental sensitivity.

Visit our website to learn more and see a list of courses, career opportunities and contact information.

bct.eco.umass.edu

1 (413) 545-1770

Program Focus

Building and Construction Technology majors enjoy an applied, project-based learning environment while receiving a strong technical and scientific foundation for their future career. The curriculum combines courses in the areas of building systems, materials performance, marketing, and business management.

We provide key courses in:

- Properties of Wood
- Construction Materials & Methods
- Light-Frame Structures
- Blueprint Reading & Estimating
- Energy Efficient Housing
- Building Energy Performance Analysis
- Building Materials Marketing
- Business of Building
- Introduction to CAD and advanced BIM
- Mechanics of Building Materials
- Design of Wood Structures

Our graduate students find dedicated academic supervisors and an engaging, real-world-oriented study environment.

Career Path

Graduates of the Building and Construction Technology program pursue a variety of careers in the building design, construction and materials technology industries including:

- Project Manager, Estimator
- Structural Designer
- Technical Sales Associate
- Market Manager
- Production Manager
- Energy and Technical Consultant
- Home energy auditor
- Research Scientist



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University of Massachusetts
Dept. of Environmental Conservation
160 Holdsworth Way
Amherst, MA 01003-9285
Tel.: 1 (413) 545-1770
Web: bct.eco.umass.edu

