Construction Technology Certificate

Course #	Course Title	Credits	Prerequisites	Semester Offered	Semester Taken	Grade Earned
ENL101	English Composition I	3	Appropriate scores in Reading Comprehension and in Sentence Skills on CPT or grade of C or better in ENL020 & ENL050 or ESL201	Fall, Spring, Summer		
CON100	Quantitative Skills for Construction	2	(MAT030 or MAT035) or satisfactory basic skills assessment score	Summer		
CON105	Materials of Construction	3	None	Spring		
CON110	Construction Technology	3	None	Fall, Summer		
CON120	Understanding and Working with the MA State Building Codes	3	None	Fall		
CON130	Computer Aided Drafting I	3	None	Fall, Spring, Summer		
	Construction Technology elective* (or) Environmental Science elective*	3				
	Construction Technology elective* (or) Environmental Science elective*	3				
Total Credits		**23**				

Overview

The certificate provides an introduction to the process of construction from start to finish, including the application of Massachusetts State Building Code, experience using computer assisted drafting software, and building materials and testing. Unique to this program is the integration of principles, practices, standards, and materials necessary to ensure sustainable construction which address environmental issues and renewable energy use. In addition, students have the opportunity to complete the certificate with the selection of two electives from a selection of construction, business, and environmental technology courses.

The coursework in the Construction Technology certificate may be helpful in obtaining the knowledge and skills necessary to pass the Massachusetts Construction Supervisors Exam

Career Outlook

This occupational profile is provided by O*NET.
www.onetonline.org/find/quick?s=construction+technology

Gainful Employment

The Gainful Employment Program Regulations provide students with the information they need to make informed educational choices including total program costs, loan repayment rates, and career outlooks.

Program Outcomes

Upon completion of the Construction Technology certificate, students are able to:

- Apply basic construction knowledge and skills.
- Integrate sustainable and renewable energy standards, methods and materials to residential and commercial building construction projects.
- Demonstrate knowledge of industry standard tools for effective building practices including software, code implementation, and interpretation.
- Prepare basic working drawings for building construction using computer assisted drafting with AutoCAD software.
- Use basic business practices and principles for the execution of a construction project.

*** Construction Technology & Environmental Science Electives**

BUS120 Business Law I
CON101 Blueprint Reading: Construction Trades
CON115 Construction Estimating
CON125 Architectural Drafting and Construction Drawing
CON135 Computer Aided Drafting II
CON225 Architectural Computer Aided Drafting I
ENV122 Environmental Management and Decision Making
ENV140 Introduction to Water: Concepts and Technologies
ENV170 Renewable Energy Sources
ENV171 Energy Efficiency and Conservation Methods
ENV172 Commercial Energy Audits
ENV173 Introduction to Solar Energy
ACC111 Accounting I with Computer Applications