

SUSTAINABLE CONSTRUCTION

CERTIFICATES AND ASSOCIATE IN APPLIED SCIENCE DEGREE PROGRAMS

The two-year Sustainable Construction program provides students with the technical knowledge and hands-on skills needed to pursue employment across many areas of the construction industry including carpentry, project management, design, building inspection, and renewable energy installation. The coursework is designed to fast track graduates to leadership positions from construction supervisor to business owner. Students learn through a design/build process that combines conventional stick framing and the millennia-old craft of timber frame joinery with the latest in building systems technology. We challenge students to think about how buildings in New England can be constructed at a higher but achievable level of quality and energy efficiency. Key sustainability concepts include sourcing local materials, reduction of energy loads, optimization of systems, and the generation of on-site renewable energy.

"It's been a great program for me so far. I didn't think we would get into the shop as soon as we did. That was great." - Vincent Birtwell 19'



Tradition and innovation at the heart of Maine building practices



What Sustainable Construction professionals do:

- Conventional construction, timber framing, or green building
- Finish carpentry and historic restoration carpentry
- Design and drafting in architecture or engineering firms
- Installation of renewable energy and weatherization

Career Opportunities:

- Contracting firms on a project management or design path
- Small timber frame or conventional construction businesses
- Housing non-profits and building inspection agencies
- Renewable energy and weatherization services

For further questions about this program, please contact: sdb@kvcc.me.edu or go to: www.kvcc.me.edu/pages/sustainable-design-build

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COURSE #	COURSE TITLE	CREDITS	PREREQUISITES (CO-REQUISITES)
Associate in Applied Science Degree			
<i>First Semester</i>			
__ __	MAT114 Technical Math	3	Min. Accuplacer arithmetic score of 55
__ __	SDB101* Tool Use, Maintenance, and Safety with OSHA 10	3	(MAT114, SDB102 or SDB103)
__ __	SDB102* Timber Frame Craftsmanship I	3	(MAT114, SDB101)
__ __	SDB103* Stick Framing and Building Concepts I	3	(MAT114, SDB101)
__ __	SDB108* CAD Drafting and Blueprint Reading	3	(MAT114, SDB102 or SDB103)
<i>Second Semester</i>			
__ __	ENG108 Technical Writing	3	Min. Accuplacer writing score of 74
__ __	HIS205 Architectural Style and Construction in New England	3	SDB103
__ __	SDB104* Timber Frame Craftsmanship II	3	SDB102
__ __	SDB105* 3D Modeling for Construction	3	SDB108
__ __	SDB107* Stick Framing and Building Concepts II	3	SDB103
<i>Third Semester</i>			
__ __	COM105 Interpersonal Communication	3	
__ __	SDB203* Building Materials and Engineering	3	SDB102, SDB103
__ __	SDB207* Finish Carpentry	2	SDB107
__ __	SDB211* Restoration Carpentry	2	SDB104
__ __	WSC110 Wood Science	3	
__ __	_____ Social Sciences Elective	3	
<i>Fourth Semester</i>			
__ __	SDB204* Building Systems I	5	SDB102, SDB103 (SDB205)
__ __	SDB205* Building Systems II	5	SDB102, SDB103 (SDB204)
__ __	SDB209* Construction Supervisor and Business Basics	3	
__ __	SDB210* Green Building Codes, Standards, and Certification Programs	1	
	Total Credits	60	

CRITERIA FOR GRADUATION

Students must complete 60 credits in the Sustainable Construction program and achieve a minimum grade of "C" in all core courses (*). Students must attain a final GPA of 2.0 or higher.

Revised: January 29, 2018