

SUSTAINABLE CONSTRUCTION

ASSOCIATE IN APPLIED SCIENCE DEGREE PROGRAM

The Sustainable Construction program provides students with the technical knowledge and hands-on skills needed to gain entry-level employment across many areas of the construction industry including carpentry, project management, design, building inspection, and renewable energy installation. This unique curriculum combines the millennia-old craft of timber frame joinery with the latest in building systems technology. Valued skills in communication, applied math, and critical thinking are developed in tandem with introductions to trades like welding, plumbing, weatherization, and more. Key sustainability concepts include sourcing local materials, reduction of energy loads, optimization of systems, and the generation of on-site renewable energy.

"The AAS in Sustainable Construction degree will emphasize specialized carpentry skills related to joinery and fine wood working, linking them with the College's existing coursework in computer-aided design, energy systems technology, electrical technology, HVAC and related trades."



Tradition and innovation at the heart of Maine building practices



What Sustainable Construction professionals do:

- Conventional construction, timber framing, or green building
- Restoration carpentry for historic preservation
- 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 other carpentry businesses
- Housing non-profits and building inspection agencies
- Renewable energy and weatherization services

For further questions about this program, please contact: slamer@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>			
— —	ENG108 Technical Writing	3	Min. Accuplacer writing score of 74
— —	MAT114 Technical Math	3	Min. Accuplacer arithmetic score of 55
— —	SDB101* Safe Work Practices in Timber Framing	1	(MAT114, SDB102)
— —	SDB102* Framing and Joinery I	6	(MAT114, SDB101)
<i>Second Semester</i>			
— —	COM104 Introduction to Communication	3	
— —	SDB104* Framing and Joinery II	6	SDB102
— —	SDB105* Design Studio: CAD/BIM	3	SDB102
— —	WSC110* Wood Science	3	SDB101
<i>Summer Semester</i>			
— —	SDB106* Internship I	6	Successful completion of all semester 1 and 2 courses with at least a 2.0 GPA in the SDB program and completion of all core courses with a C or better, or special permission from the instructor.
<i>Third Semester</i>			
— —	SDB203* Structural Mechanics	3	MAT114, SDB102
— —	SDB204* Building Envelope I	5	SDB204
— —	SDB206* Site Survey	3	MAT114, SDB102
— —	_____ Social Sciences Elective	3	
<i>Fourth Semester</i>			
— —	HIS104 Architectural Style and Construction in New England	3	ENG101 or ENG108
— —	BUS216* Small Business Basics	3	
— —	SDB205* Building Envelope II	5	SDB204
— —	SDB208* Internship II	3	SDB106
	Total Credits	62	

CRITERIA FOR GRADUATION

Students must complete 62 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: April 3, 2017