

# ENERGY SERVICES & PLUMBING

## ASSOCIATE IN APPLIED SCIENCE DEGREE PROGRAM

The Energy Services and Plumbing program is designed to prepare students for technician level positions in the rapidly growing field of installing, maintaining, and troubleshooting high efficiency plumbing, heating, ventilation, and air conditioning. Graduates will work on systems that control water, temperature, humidity, and air quality of enclosed spaces.

KVCC's Energy Services and Plumbing program is the only program of its kind in the State of Maine to offer plumbing, HVAC, solid fuel, geothermal, heat pumps, and solar heating in one comprehensive program.

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"I always knew I wanted to go into heating. What I have learned at KVCC is that the world is changing and there are newer ways to heat than the old oil boilers."

"Some people think that solar thermal panels are really impractical here in New England. While studying heating and cooling at KVCC, I found out just how untrue this is. It is exciting to be on the cutting edge of a new industry that is taking over."



Learn to install, maintain, and troubleshoot modern heating, ventilating, and cooling systems



### What Energy Services and Plumbing graduates do:

- JIT Plumber
- Resource conservation manager
- Energy management technician
- Journeyman oil burner technician
- HVAC technician
- Journeyman solid fuel technician

### Career Opportunities:

- Educational facilities
- Small businesses
- Plumbing and heating firms
- Hospital facilities
- Manufacturing companies
- Industry plants

For further questions about this program, please contact:

[est@kvcc.me.edu](mailto:est@kvcc.me.edu) or go to: [www.kvcc.me.edu/est](http://www.kvcc.me.edu/est)

## ENERGY SERVICES AND PLUMBING

COURSE #	COURSE TITLE	CREDITS	PREREQUISITES (CO-REQUISITES)
<b>Associate in Applied Science Degree</b>			
<i>First Semester</i>			
__ __	BPT125* Construction Print Reading	3	
__ __	ETL107* Electrical Principles for HVAC	3	(MAT114)
__ __	MAT114 Technical Math	3	Min. Accuplacer arithmetic score of 55
__ __	PLB101* Plumbing Fundamentals	5	Two years of high school algebra
<i>Second Semester</i>			
__ __	ENG108 Technical Writing	3	Min. Accuplacer writing score of 74
__ __	ETL108* HVAC Electronics and Controls	3	ETL107
__ __	HAC106* Heat Pumps and Air Conditioning	3	(ETL108)
__ __	MAT117 College Algebra	3	High school algebra, min. Accuplacer algebra score of 75, or successful completion of MAT031
__ __	PLB201* Advanced Plumbing Applications	5	PLB101
<i>Third Semester</i>			
__ __	COM104 Introduction to Communication OR		
__ __	COM105 Interpersonal Communication	3	
__ __	HAC201* Heating System Fundamentals	5	
__ __	HAC204* Biomass Solid Fuel Applications	3	(HAC201)
__ __	PHY111 Elements of Physics	4	Minimum grade of "C" in MAT117 or MAT119
__ __	_____ Social Science Elective	3	
<i>Fourth Semester</i>			
__ __	HAC202* Advanced Heating Applications	5	HAC201
__ __	HAC205* Propane and Natural Gas	3	HAC201
__ __	HAC206* Renewable/Sustainable Energy Systems	3	(HAC202)
__ __	HAC210* HVAC and Plumbing Codes	3	HAC201, PLB101 (HAC202)
__ __	_____ Humanities Elective	3	
	Total Credits	66	

### CRITERIA FOR GRADUATION

Students must complete 66 credits in the Energy Services and Plumbing program and achieve a minimum grade of "C" in designated common and program core courses (\*). Students must attain a final GPA of 2.0 or higher.

Revised: October 30, 2017