

# HVAC/R

Associate in Applied Science • Certificate



**The Associate in Applied Science (A.A.S.) in Heating, Ventilation, Air Conditioning and Refrigeration (HVAC/R) prepares students to install and service heating, air conditioning and refrigeration equipment in residential and commercial settings.**

Coursework includes:

- Hands-on practices in heating, ventilation, air conditioning, and refrigeration
- Diagnostics and Servicing
- Print Reading and Interpretation
- Externship

**A.A.S. graduates may pursue careers with HVAC/R contractors in:**

- **Maintenance**
- **Installation**
- **Service**
- **Sales**
- **Managing\***
- **Supervising\***
- **Independent Operations\***

*\*with additional experience*

## Degree Requirements

Semester I		Credit Hours
ENG __*	Select <u>one</u> of the following:	3
	ENG 101 College Writing	
	ENG 105 College Writing Seminar	(4)
MAT 104*	Technical Mathematics	3
HVT 105	Basic Refrigeration Principles	3
HVT 111	Electricity for HVAC/R	3
HVT 120	Residential Load Calculations	2
OHS 115	Construction Safety & Health	3
<b>Semester II</b>		
HVT 152	Heat Pumps	3
HVT 180	HVAC/R Diagnostics & Servicing	4
PHT 140	Print Reading and Interpretation	2
___	Elective: General Education	3
COM __	Elective: Communication	3
<b>Semester III</b>		
PHT 207	Heating I	4
PHT 209	Propane and Natural Gas I	4
PHT 225	Maine Oil/Solid Fuel Code	1
HVT 255	Commercial Refrigeration	2
___	Elective: Mathematics or Science 100 or Higher	3-4
<b>Semester IV</b>		
HVT 252	HVAC/R System Design	3
PHT 259	Propane and Natural Gas II	4
PHI 111	Introduction to Ethics	3
ENG __	Select <u>one</u> of the following:	3
	ENG 201 Technical Writing	
	ENG 220 Business Communication	
___	Select <u>one</u> of the following:	3
	HVT 297 Externship	
	PHT 135 Electricity, Pumps and Hydronics	
<b>Total Credit Hour Requirements</b>		<b>62-64</b>

\*Placement determined by assessment test scores and/or prior college course-work

## Certificate Requirements

Semester I		Credit Hours
ENG __*	Select <u>one</u> of the following:	3
	ENG 101 College Writing	
	ENG 105 College Writing Seminar	(4)
MAT 104*	Technical Mathematics	3
HVT 105	Basic Refrigeration Principles	3
HVT 111	Electricity for HVAC/R	3
HVT 120	Residential Load Calculations	2
OHS 115	Construction Safety & Health	3
<b>Semester II</b>		
HVT 152	Heat Pumps	3
HVT 180	HVAC/R Diagnostics & Servicing	4
PHT 140	Print Reading and Interpretation	2
___	Elective: General Education	3
COM __	Elective: Communications	3
<b>Total Credit Hour Requirements</b>		<b>32-33</b>

### Office of Admissions

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[www.cmcc.edu](http://www.cmcc.edu)

Find CMCC on social media at CMCCMaine!

