

# REFRIGERATION, AIR CONDITIONING & HEATING

*Refrigeration, Air Conditioning and Heating Technology provides students with opportunities to become proficient in the installation, maintenance, and repair of commercial refrigeration, air conditioning, and heating equipment.*

**emcc.edu/RAH**

**R.A.H.** graduates will meet full educational requirements and partial field experience requirements for State of Maine licensing as journeyman oil burner technicians.

- Graduates of this program find employment in a variety of commercial and industrial settings, with refrigeration, air conditioning, and heating contractors, and in sales positions.
- These licenses or certifications are available to graduates of the program: Limited Electrician in Refrigeration License, EPA Refrigeration Certification, Oil Burner Journeyman License, Propane/Natural Gas License.

**EMCC students enjoy small class sizes, supportive faculty, transferable courses and leadership/engagement opportunities all for under \$4,000/year.**

*(Most programs, based on 30 credit hours, in-state rate of \$96 per credit hour)*



***Free Application!***  
*Scan this code  
to apply today.*



 **Eastern Maine  
Community College**

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**354 Hogan Rd, Bangor, ME 04401 | 207-974-4680 | emcc.edu | #WeAreEMCC**

# REFRIGERATION, AIR CONDITIONING & HEATING

Associate in Applied Science Degree

## Prerequisites

**AAS Degree:** High School level Algebra I required. Algebra II, Geometry and Physics or Chemistry with Lab desired.

**Certificate:** High school level Algebra I required.

### 1<sup>ST</sup> SEMESTER (CREDITS)

RAH-103 Refrigeration & Air Conditioning Lab I\*\* (2)  
RAH-113 Refrigeration Components & Physical Principles\*\* (2.5)  
RAH-123 Refrigeration Systems & Flow Controls\*\* (2.5)  
RAH-133 RAH Electricity I\*\* (3)  
ENG-100 Basic Academic & Pre-professional Writing OR  
ENG-101 College Composition\*\* (3)  
MAT-110 Technical Mathematics I\*\* (3)

### 2<sup>ND</sup> SEMESTER (CREDITS)

RAH-104 Refrigeration & Air Conditioning Lab II\*\* (2)  
RAH-138 RAH Electricity II & Motors\*\* (3)  
RAH-144 Commercial Refrigeration Systems I\*\* (2.5)  
RAH-147 Commercial Refrigeration Systems II\*\* (2.5)  
RAH-171 HVAC Print Reading\*\* (2)  
MAT-114 Technical Mathematics II\*\* (3)  
SPE-101 Oral Communication\*\* (3)

### 3<sup>RD</sup> SEMESTER (CREDITS)

RAH-203 Refrigeration & Air Conditioning Lab III (2)  
RAH-234 RAH Controls I (3)  
RAH-264 Heat Pump Systems (1)  
RAH-272 Gas Heating Systems (4)  
ENG-215 Business & Technical Writing (3)  
PHY-108 Survey of Applied Physics (4)

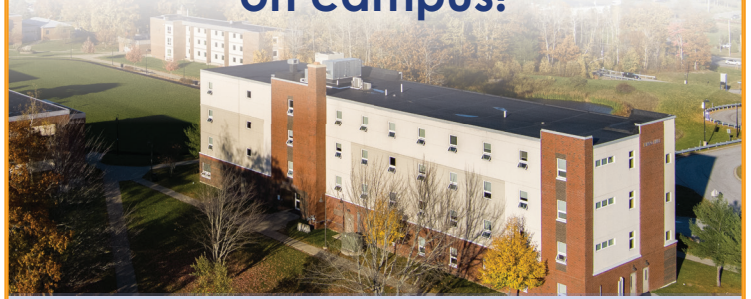
### 4<sup>TH</sup> SEMESTER (CREDITS)

RAH-204 Refrigeration & Air Conditioning Lab IV (2)  
RAH-237 RAH Controls II & Transformers (3)  
RAH-283 HVAC Systems I (2.5)  
RAH-287 HVAC Systems II (2.5)  
PSY-211 Human Relations OR  
PSY-101 Introduction to Psychology (3)

▶ **TOTAL AAS DEGREE CREDITS** 64

\*\* Denotes courses required to complete the **Certificate in Refrigeration**.  
Total Credits: 34

## We have TWO residence halls on campus!



Kineo Hall houses students in “blocks” (two double-occupancy rooms with four people of the same gender) or triple-occupancy rooms. Each is individually climate controlled and shares a common bathroom, with double sinks, a shower and a toilet stall.

Acadia Hall houses students in corridor-style double or triple occupancy rooms.

A meal plan is mandatory for anyone living in residential housing on campus.

*Studies show that students who live on campus not only tend to have higher GPA's, but they are also more likely to complete their education and get more out of their college experience.*



Visit [www.emcc.edu/housing](http://www.emcc.edu/housing) to learn more.  
Apply early, space is limited!

*Still in high school? Concurrent enrollment agreements with many high schools and technical education centers are available. Information can be found online at:*

[www.emcc.edu/academics/programs/early-college](http://www.emcc.edu/academics/programs/early-college)



Did you graduate from high school in 2020, 2021, 2022, or 2023 or will be graduating in 2024 or 2025?

*Then you may qualify for the Maine Free College Scholarship at EMCC!*

*Did you know EMCC has its own foundation?*

Each year, our Foundation gives out over \$100,000 in scholarships to EMCC students. Visit [emcc.edu/foundation](http://emcc.edu/foundation) to learn more and apply.

## CAMPUS TOURS AVAILABLE

Call 207.974.4780 or scan this QR code to schedule an appointment!



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