

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.



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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)



CAMPUS TOURS AVAILABLE

Call 207.974.4870 or schedule an appointment on our website.

www.emcc.edu/RAH

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.

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/



REFRIGERATION, AIR CONDITIONING & HEATING TECHNOLOGY

Associate in Applied Science Degree

Students opting to take the certificate program will be required to complete the credits listed under the First Semester and the Second Semester.

1ST 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-101 **College Composition**** (3)
- MAT-110 **Technical Mathematics I**** (3)

2ND 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)

LIVE ON CAMPUS



Did you know that EMCC has TWO residence halls on campus?

Built in 2007, 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.

Rooms range from \$1,850 - \$2,250 per semester.

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 to learn more!

3RD 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)

4TH 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** (3)

TOTAL AAS DEGREE CREDITS 64

^ ELO Capstone

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