

RAC - Refrigeration and Air Conditioning Technology

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WEBSITE: <http://tech.honolulu.hawaii.edu/rac>

FACULTY: Derek Oshiro, Allen Tateishi

PROGRAM MISSION: The Refrigeration & Air Conditioning Technology program's mission is to serve the community as a learning-centered, open door program that provides technical training to meet the demands of the industry and the needs of the individual. An open-exit option allows the students to identify their career objectives and participate in program exploration.

PROGRAM DESCRIPTION: The Refrigeration and Air Conditioning Program prepares students for employment as technicians in the design, operation, service, repair, installation and sales of these systems and equipment. The program combines theory with extensive practical hands-on training designed to simulate the actual work environment and skills needed to excel in this challenging field. Labs afford the student the opportunity to install, repair, and/or operate actual field equipment, such as commercial package and split system A/C; liquid chillers; commercial ice machines; and domestic equipment.



RAC students construct a refrigeration system.

PROGRAM STUDENT LEARNING OUTCOMES (SLO): Upon successful completion of the RAC program, students will be able to:

- Gain employment in the field of refrigeration and air conditioning;
- Demonstrate positive work habits and attitudes; and,
- Demonstrate knowledge and skills required for the repair and maintenance of air conditioning and refrigeration equipment according to National Standards.

PROGRAM REQUIREMENTS:

Program Prerequisite or Co-requisite:

ENG 19 and/or ENG 21, OR "C" or higher in ESL 13 & 14,
OR Placement in ENG 22/60 or ESL 23

MATH 9, OR Placement in MATH 50

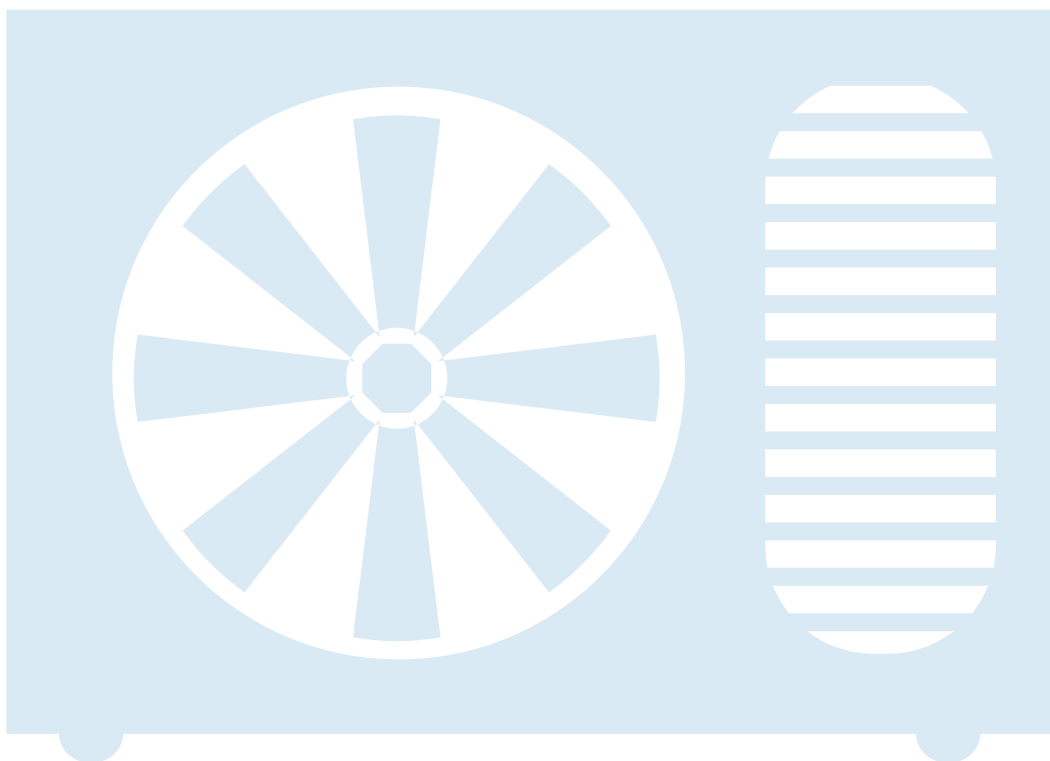
		Certificate of Achievement Credits	Associate in Applied Science Degree Credits
First Semester			
RAC 21	Basic Refrigeration	12	12
MATH 197	Technical Math II		3
		12	15
Second Semester			
RAC 32	Commercial Refrigeration	12	12
ENG 100 or ENG 120	Composition I Advanced Technical Writing		3
		12	15
Third Semester			
RAC 40	Air Conditioning I	12	12
General Education Requirement *			3
		12	15

Fourth Semester

<i>RAC 50</i>	<i>Air Conditioning II</i>	12	12
<i>General Education Requirement *</i> <i>(Recommended: PSY 180 Psychology of Work)</i>			3
<i>General Education Requirement *</i>			3
		12	18
Minimum Credits Required		48	63

* General Education Requirements for the AAS degree are listed under *DEGREES AND CERTIFICATES*.

Note: Students must meet the minimum proficiency standards in communication established by Honolulu CC to qualify for the Certificate of Achievement.



COST OF TEXTBOOKS/SUPPLIES: The cost of textbooks, supplies, meters, and tools is approximately \$800.

ADVISORY COMMITTEE:

- John Arizumi, President/Owner, Carrier Hawai'i
- Clayton Kurosu, Owner/President, American Air Conditioning
- Richard McIlhenny, President/Owner, Trane Pacific
- Ronnie Nakamura, President, A/C Warehouse Inc.
- Lester Nakata, President, O'ahu Sales
- Allen Ng, Regional Manager, Sears Appliance Repair Division
- Clayton Shobu, Owner/President, Shobu's Air Conditioning