

**AIR CONDITIONING,
REFRIGERATION AND HEATING
TECHNOLOGY**

Associates in Applied Science Degree

Occupational Specialty: 1161
(Refrigeration Mechanic)

Degree Requirements: You must have 2000 hours of experience documented in the United Services Military Apprenticeship Program Refrigeration Mechanic (0666M) at the time of completion. You must also have EPT Type II certification.

Technical Education (20 semester hours)
A minimum of 12 semester hours of technical core courses must be applied; the remaining hours applied may be from the technical elective subjects or core courses.

Technical Core (12 Semester Hours)

Basic Electricity	2 ⁽¹⁾
Refrigeration and A/C Theory.....	3 ⁽¹⁾
Refrigeration and A/C Lab.....	2 ⁽¹⁾
A/C Systems and Controls.....	4 ⁽²⁾
Heating and Air Conditioning	4 ⁽²⁾
Heating, Ventilation A/C.....	4 ⁽²⁾
HVAC Electronic.....	2
HVAC Controls.....	3
Occupational Safety.....	3

Technical Electives (8 Semester Hours)

Interior Wiring.....	2 ⁽³⁾
Solid State Devices.....	2 ⁽³⁾
Construction Print Reading.....	2 ⁽³⁾
Fundamentals of Refrigeration.....	3 ⁽³⁾
Residential System Design.....	3
Commercial System Design.....	3

Leadership and Management (6 semester hours) Professional Military Education, civilian management courses or testing for credit.

Basic Management.....	2 ⁽⁴⁾
Principles of Management.....	2 ⁽⁴⁾ 5
Principles of Supervision.....	3 ⁽⁵⁾
Business 101.....	3 ⁽⁵⁾

General Education (22 semester hours)

Speech.....	3 ⁽⁵⁾
English 101.....	3 ⁽⁵⁾
Psychology 101.....	3 ⁽⁵⁾
College Algebra	3 ⁽⁵⁾
History.....	3 ⁽⁵⁾
Humanities.....	3 ⁽⁵⁾
Physical Science (w/Lab).....	4

Electives (15 semester hours)

Physical Fitness/Gray Belt Qualification.....	4 ⁽⁶⁾ 7
Military Studies.....	3 ⁽⁴⁾
Personal Financial Management.....	1 ⁽³⁾
Principals of Instr for NCOs.....	3 ⁽³⁾
Basic Pay and Allowances.....	1 ⁽³⁾
Basic Nutrition.....	1 ⁽³⁾
Basic Warehousing.....	1 ⁽³⁾
Field Budget Formulation.....	1 ⁽³⁾

or

College level courses..... 15
(recommend courses which will apply toward a focus or major towards a bachelor's degree)

DEGREE SUMMARY

Technical Education	
• Technical Core.....	12
• Technical Electives.....	8
Leadership and Management.....	6
General Education.....	22
Electives.....	15
Total Semester Hours.....	63

- Notes:
- (1) 1161 MOS Course credit recommended by ACE
 - (2) ACE recommended credit for ASE testing
 - (3) MCI Course credit recommended by ACE
 - (4) ACE recommended credit from Sergeants Distance Education Program or Corporal's Course
 - (5) Can test for credit using CLEP or DANTES
 - (6) ACE recommended credit for Recruit Training
 - (7) Recommended credit from Marine Corps Martial Arts Program