

**HEATING, VENTILATION, AIR CONDITIONING/REFRIGERATION TECHNOLOGY
SEMESTER CURRICULUM**

DAY STUDENTS

FIRST SEMESTER -- BASIC

		<u>Cr.</u>	<u>Cl.</u>	<u>Lab</u>	<u>Cnt.</u>
ACR 101	Fundamentals of Refrigeration	5.0	4.0	3.0	7.0
ACR 102	Tools & Service Techniques	3.0	1.0	6.0	7.0
ACR 106	Basic Electricity for HVAC/R	4.0	3.0	3.0	6.0
MAT 155	Contemporary Mathematics	3.0	3.0	0.0	3.0
CPT 101	Introduction to Computers	<u>3.0</u>	<u>3.0</u>	<u>0.0</u>	<u>3.0</u>
		18.0	14.0	12.0	26.0

SECOND SEMESTER -- HEATING & AIR CONDITIONING

ACR 110	Heating Fundamentals	4.0	3.0	3.0	6.0
ACR 120	Basic Air Conditioning	4.0	4.0	0.0	4.0
ACR 210	Heat Pumps	4.0	3.0	3.0	6.0
ACR 250	Duct Fabrication	3.0	2.0	3.0	5.0
ENG 101	English Composition I	<u>3.0</u>	<u>3.0</u>	<u>0.0</u>	<u>3.0</u>
		18.0	15.0	9.0	24.0

THIRD SEMESTER -- REFRIGERATION

ACR 130	Domestic Refrigeration	4.0	2.0	6.0	8.0
ACR 131	Commercial Refrigeration	4.0	2.0	6.0	8.0
Social/Behavioral Science Elective	PSY 201, ECO 210 or SOC 101	<u>3.0</u>	<u>3.0</u>	<u>0.0</u>	<u>3.0</u>
		11.0	7.0	12.0	19.0

FOURTH SEMESTER -- ADVANCED HVAC

ACR 206	Advanced Electricity for HVAC/R	2.0	0.0	6.0	6.0
ACR 220	Advanced Air Conditioning	4.0	2.0	6.0	8.0
ACR 221	Residential Load Calculations	2.0	1.0	3.0	4.0
ACR 224	Codes and Ordinances	2.0	2.0	0.0	2.0
ENG 165	Professional Communications	<u>3.0</u>	<u>3.0</u>	<u>0.0</u>	<u>3.0</u>
		13.0	8.0	15.0	23.0

FIFTH SEMESTER -- ADVANCED REFRIGERATION

ACR 207	Advanced Refrigeration Electricity	3.0	1.0	6.0	7.0
ACR 231	Advanced Refrigeration	4.0	2.0	6.0	8.0
ACR 232	Refrigeration Calculation & Equip Selection	3.0	2.0	3.0	5.0
Humanities	Elective	3.0	3.0	0.0	3.0
Free	Elective	<u>2.0</u>	<u>VARIES</u>	<u>VARIES</u>	<u>VARIES</u>
		15.0	VARIES	VARIES	VARIES

ASSOCIATE 75 Minimum Credit Hours -- All Semesters -- (All Courses).

DIPLOMA 47 Minimum Credit Hours -- First Three Semesters -- (All Courses).

CERTIFICATE 35 Minimum Credit Hours -- First Three Semesters -- (ACR Courses Only).

ENTER FALL Semester Sequence - 1st, 2nd, 3rd, 4th, 5th.

ENTER SPRING Semester Sequence - 1st, 3rd, 2nd, 5th, No ACR Courses, 4th.

**HEATING, VENTILATION, AIR CONDITIONING/REFRIGERATION TECHNOLOGY
SEMESTER CURRICULUM**

EVENING STUDENTS

FIRST YEAR

Fall Semester			<u>Cr.</u>	<u>Cl.</u>	<u>Lab</u>	<u>Cnt.</u>
ACR	101	Fundamentals of Refrigeration	5.0	4.0	3.0	7.0
ACR	102	Tools & Service Techniques	3.0	1.0	6.0	7.0

(These courses are corequisites and must be taken during the same semester)

Spring Semester

ACR	106	Basic Electricity for HVAC/R	4.0	3.0	3.0	6.0
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SECOND YEAR

Fall Semester

ACR	110	Heating Fundamentals	4.0	3.0	3.0	6.0
ACR	120	Basic Air Conditioning	4.0	4.0	0.0	4.0

Spring Semester

ACR	210	Heat Pumps	4.0	3.0	3.0	6.0
ACR	250	Duct Fabrication	3.0	2.0	3.0	5.0

THIRD YEAR

Fall Semester

ACR	130	Domestic Refrigeration	4.0	2.0	6.0	8.0
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Spring Semester

ACR	131	Commercial Refrigeration	4.0	2.0	6.0	8.0
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CERTIFICATE 35 Minimum Credit Hours -- ACR courses listed above.

CPT	101	Introduction to Computers	3.0	3.0	0.0	3.0
ENG	101	English Composition I	3.0	3.0	0.0	3.0
MAT	155	Contemporary Mathematics	3.0	3.0	0.0	3.0
Social/Behavioral Science Elective		PSY 201, ECO 210 or SOC 101	3.0	3.0	0.0	3.0

DIPLOMA 47 Minimum Credit Hours -- All courses listed above.

NOTES:

- New students are accepted in ACR courses during the Fall Semester only.
- First year ACR courses are prerequisites for all other ACR courses.
- Second and third year courses may be taken in reverse order.
- No ACR courses are taught during the summer semester, but students in the Diploma program may take other required courses if prerequisites are met.