



A/C & REFRIGERATION TECHNOLOGY PROGRAM GUIDE

FIRST SEMESTER

COURSE NAME	COURSE PREFIX	COURSE NUMBER	CREDIT HOURS
HVAC Introduction	HACR	1150	3
Principles of Refrigeration I	HACR	1160	3
Principles of Refrigeration II	HACR	1170	3
Principles of Refrigeration III	HACR	1180	3
SEMESTER CREDIT HOURS			12

SECOND SEMESTER

COURSE NAME	COURSE PREFIX	COURSE NUMBER	CREDIT HOURS
Electrical Fundamentals	HACR	1210	3
Electrical Components	HACR	1220	3
Electric Motors	HACR	1230	3
Applied Electricity and Troubleshooting	HACR	1240	3
Domestic Refrigeration	HACR	1410	2
Room Air Conditioners	HACR	1420	2
SEMESTER CREDIT HOURS			16

CTS- A/C & Refrig: Domestic (28)

THIRD SEMESTER

COURSE NAME	COURSE PREFIX	COURSE NUMBER	CREDIT HOURS
Residential Central Air Conditioning I	HACR	2510	3
Residential Central Air Conditioning II	HACR	2520	2
Residential System Design	HACR	2530	2
Residential Heating I	HACR	2540	3
Residential Heating II	HACR	2550	3
Residential Heat Pumps	HACR	2560	2
Job Seeking Skills	JOBS	2450	2
SEMESTER CREDIT HOURS			17

TD- TECHNICAL DEGREE- A/C & Refrig: Commercial (45)

OPTIONAL ELECTIVES:

COURSE NAME	COURSE PREFIX	COURSE NUMBER	CREDIT HOURS
Solar Fundamentals *See Optional Elective listed below	SOLR	1000	3
PV Solar Fundamentals *See Optional Elective listed below	SOLR	1010	3
Industrial Solar Fundamentals *See Optional Elective listed below	SOLR	1020	3
Solar Thermal Applications *See Optional Elective listed below	SOLR	1030	3
Commercial Air Conditioning I *See Optional Elective listed below	HACR	2810	6
Commercial Air Conditioning Controls *See Optional Elective listed below	HACR	2820	7
Commercial Air Conditioning II *See Optional Elective listed below	HACR	2830	6
Special Projects I- Approved Substitute Course for Optional Electives	SPPR	2991	1
Special Projects II- Approved Substitute Course for Optional Electives	SPPR	2993	2
Special Projects III- Approved Substitute Course for Optional Electives	SPPR	2995	3
Practicum- Approved Substitute Course for Optional Electives	SPPR	2997	3
Cooperative Education- Approved Substitute Course for Optional Electives	SPPR	2999	3



A/C & REFRIGERATION TECHNOLOGY PRE-REQUISITES

FIRST SEMESTER

COURSE NAME	CO-REQUISITE	PRE-REQUISITE
HACR 1150	HACR 1160, HACR 1170, HACR 1180	HACR 1150
HACR 1160	HACR 1150, HACR 1170, HACR 1180	HACR 1160
HACR 1170	HACR 1150, HACR 1160, HACR 1180	HACR 1170
HACR 1180	HACR 1150, HACR 1160, HACR 1170	HACR 1180

SECOND SEMESTER

COURSE NAME	CO-REQUISITE	PRE-REQUISITE
HACR 1210	HACR 1220, HACR 1230, HACR 1240, HACR 1410, HACR 1420	HACR 1150, HACR 1160, HACR 1170, HACR 1180
HACR 1220	HACR 1210, HACR 1230, HACR 1240, HACR 1410, HACR 1420	HACR 1150, HACR 1160, HACR 1170, HACR 1180
HACR 1230	HACR 1210, HACR 1220, HACR 1240, HACR 1410, HACR 1420	HACR 1150, HACR 1160, HACR 1170, HACR 1180
HACR 1240	HACR 1210, HACR 1220, HACR 1230, HACR 1410, HACR 1420	HACR 1150, HACR 1160, HACR 1170, HACR 1180
HACR 1410	HACR 1210, HACR 1220, HACR 1230, HACR 1240, HACR 1420	HACR 1150, HACR 1160, HACR 1170, HACR 1180
HACR 1420	HACR 1210, HACR 1220, HACR 1230, HACR 1240, HACR 1410	HACR 1150, HACR 1160, HACR 1170, HACR 1180

THIRD SEMESTER

COURSE NAME	CO-REQUISITE	PRE-REQUISITE
HACR 2510	HACR 2520, HACR 2530, HACR 2540, HACR 2550, HACR 2560,	HACR 1150, HACR 1160, HACR 1170, HACR 1180, HACR 1210, HACR 1220, HACR 1230, HACR 1240, HACR 1410, HACR 1420
HACR 2520	HACR 2510, HACR 2530, HACR 2540, HACR 2550, HACR 2560	HACR 1150, HACR 1160, HACR 1170, HACR 1180, HACR 1210, HACR 1220, HACR 1230, HACR 1240, HACR 1410, HACR 1420
HACR 2530	HACR 2510, HACR 2520, HACR 2540, HACR 2550, HACR 2560	HACR 1150, HACR 1160, HACR 1170, HACR 1180, HACR 1210, HACR 1220, HACR 1230, HACR 1240, HACR 1410, HACR 1420
HACR 2540	HACR 2510, HACR 2520, HACR 2530, HACR 2550, HACR 2560	HACR 1150, HACR 1160, HACR 1170, HACR 1180, HACR 1210, HACR 1220, HACR 1230, HACR 1240, HACR 1410, HACR 1420
HACR 2550	HACR 2510, HACR 2520, HACR 2530, HACR 2540, HACR 2560	HACR 1150, HACR 1160, HACR 1170, HACR 1180, HACR 1210, HACR 1220, HACR 1230, HACR 1240, HACR 1410, HACR 1420
HACR 2560	HACR 2510, HACR 2520, HACR 2530, HACR 2540, HACR 2550	HACR 1150, HACR 1160, HACR 1170, HACR 1180, HACR 1210, HACR 1220, HACR 1230, HACR 1240, HACR 1410, HACR 1420
JOBS 2450		

