



## CATALOG YEAR: 2020-2021 A/C & REFRIGERATION TECHNOLOGY

### 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
<b>SEMESTER CREDIT HOURS</b>			<b>12</b>

### 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	1240	2
<b>SEMESTER CREDIT HOURS</b>			<b>16</b>

**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
<b>SEMESTER CREDIT HOURS</b>			<b>17</b>

**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
<b>Special Projects I-</b> Approved Substitute Course for Optional Electives	<b>SPPR</b>	<b>2991</b>	<b>1</b>
<b>Special Projects II-</b> Approved Substitute Course for Optional Electives	<b>SPPR</b>	<b>2993</b>	<b>2</b>
<b>Special Projects III-</b> Approved Substitute Course for Optional Electives	<b>SPPR</b>	<b>2995</b>	<b>3</b>
<b>Practicum-</b> Approved Substitute Course for Optional Electives	<b>SPPR</b>	<b>2997</b>	<b>3</b>
<b>Cooperative Education-</b> Approved Substitute Course for Optional Electives	<b>SPPR</b>	<b>2999</b>	<b>3</b>