

# AIR CONDITIONING & REFRIGERATION PROGRAM

## TECHNICAL CERTIFICATE IN AIR CONDITIONING AND REFRIGERATION - FACILITIES MAINTENANCE OPTION

### Curriculum

The matrix below is a sample plan for all coursework required for this program.

#### Fall

Course Number and Name	Credits
ACR 1203 Fundamentals of Electricity	3
ACR 1205 Tubing and Piping	5
ACR 1301 Industrial Safety in Air Conditioning and Refrigeration	1
ACR 1302 Basic Compression and Refrigeration	2
BST 1003 Business English	3
WLD 1302 Metallurgy	2
<b>Total Hours</b>	<b>16</b>

#### Spring

Course Number and Name	Credits
ACR 1222 Industrial Controls	2
ACR 1503 Electronic Components	3
ACR 1602 Schematics	2
TMAT 1203 Technical Mathematics	3
FAC 2202 Carpentry	2
FAC 2212 Plumbing	2
<b>Total Hours</b>	<b>14</b>

#### 1st Summer Session (five-week courses)

Course Number and Name	Credits
ICS 2123	3
Approved Elective	3
<b>Total Hours</b>	<b>6</b>

*Suggested approved electives include: AST 1004 Gasoline Engine Theory, BST 1073 Accounting, CRT 1124 Painting I, ICS 1104, or ICS 1303*

*(Concurrent students who earn a Certificate of Proficiency in Construction Technology may progress to earn a Technical Certificate in Air Conditioning and Refrigeration - Facilities Maintenance Option by completing the remaining required courses below.)*

### Certificate of Proficiency in Construction Technology

## Air Conditioning & Refrigeration Program

Course Number and Name	Credits
FAC 2102 Electrical Applications	2
FAC 2104 Construction Fundamentals	4
FAC 2202 Carpentry	2
FAC 2212 Plumbing	2
<b>Total Hours</b>	<b>10</b>

### Fall

Course Number and Name	Credits
ACR 1203 Fundamentals of Electricity	3
ACR 1205 Tubing and Piping	5
ACR 1301 Industrial Safety in Air Conditioning and Refrigeration	1
ACR 1302 Basic Compression and Refrigeration	2
BST 1003 Business English	3
WLD 1302 Metallurgy	2
<b>Total Hours</b>	<b>16</b>

### Spring

Course Number and Name	Credits
ACR 1222 Industrial Controls	2
ACR 1503 Electronic Components	3
ACR 1602 Schematics	2
TMAT 1203 Technical Mathematics	3
<b>Total Hours</b>	<b>10</b>