

# AIR CONDITIONING & REFRIGERATION PROGRAM

## ASSOCIATE OF APPLIED SCIENCE IN AIR CONDITIONING & REFRIGERATION - FACILITIES MANAGEMENT OPTION

### Curriculum

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

#### 1st Semester

| 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         |
| ENGL 1013  | 3         |
| WLD 1302 Metallurgy  | 2         |
| <b>Total Hours</b>   | <b>16</b> |

#### 2nd Semester

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

#### 3rd Semester

| Course Number and Name  | Credits   |
|---|-----------|
| FAC 2104 Construction Fundamentals or Approved Elective                       | 3         |
| BST 2143 Introduction to Management   | 3         |
| BST 1303 Introduction to Computers or CIS 1113 Fundamental Computer Operation | 3         |
| ICS 2123 Industrial Fluid Power   | 3         |
| Approved Elective   | 3         |
| <b>Total Hours</b>  | <b>15</b> |

**4th Semester**

| <b>Course Number and Name</b>            | <b>Credits</b> |
|--|----------------|
| Any Approved Social Science <sup>1</sup> | 3              |
| INT 2904 Internship                      | 4              |
| ENGL 1023                                | 3              |
| FAC 2222 Grounds Maintenance             | 2              |
| WLD 1403 Welding for Trades and Industry | 3              |
| <b>Total Hours</b>                       | <b>15</b>      |

<sup>1</sup>See appropriate alternatives or substitutions in "General Education Requirements". (Suggested approved electives include: AST 1004 Gasoline Engine Theory, BST 1073 Accounting, CRT 1124 Painting I, ICS 1163 Fundamentals of Electricity I (DC Circuits) and ICS 1173 Fundamentals of Electricity II (AC Circuits), or ICS 1303 PC Maintenance I)

\*Usually offered in Summer