

Heating, Air Conditioning and Refrigeration

Service Technician Degree

Degree: Associate in Applied Science

Total Required Credits for Degree: minimum of 64

Program Requirements: 36

Electives: 5

Program Electives: 5

General Education Credits: 18 to 20

Code: 3902

About the Program

This two-year associate in applied science (A.A.S.) degree offers training in the current technology for diagnosing, servicing, repairing and installing heating, air conditioning and refrigeration systems. If you are planning to transfer to a four-year baccalaureate-granting institution, this is the preferred two-year degree.

Program web site: www.cod.edu/hvacr

Program Requirements

| | | |
|-------------------|--|-----------|
| Airc 1100 | Refrigeration Principles..... | 3 |
| Airc 1105 | Introduction to Safety, Materials and Equipment..... | 3 |
| Airc 1108 | Refrigerant Certification..... | 1 |
| Airc 1110 | Introduction to Controls..... | 3 |
| Airc 1180 | Introduction to Heating..... | 5 |
| Airc 1186 | Introduction to Hydronics..... | 2 |
| Airc 2201 | Residential Air Conditioning..... | 3 |
| Airc 2202 | Commercial Air Conditioning..... | 3 |
| Airc 2210 | Commercial Refrigeration..... | 5 |
| Airc 2225 | Troubleshooting Systems..... | 3 |
| Airc 2240 | Load Calculations and Duct Design..... | 5 |
| Total..... | | 36 |

Electives

Select 5 credits from any 1000- or 2000-level courses.

Program Electives

Select at least 5 credits from the courses below:

| | | |
|------------|--|---|
| Airc 1112 | Residential Refrigeration..... | 3 |
| Airc 1161 | Introduction to Sheet Metal..... | 2 |
| Airc 1187 | Central Heating Plants..... | 3 |
| Airc 2205 | Heat Pumps..... | 2 |
| Airc 2220 | Installation..... | 3 |
| Airc 2230 | Advanced Controls..... | 3 |
| Airc 2236 | Central Cooling Plants..... | 3 |
| Airc 2241 | Industrial Air Conditioning Design..... | 3 |
| Airc 2250 | System Balancing..... | 2 |
| Airc 2260 | HVACR Contracting..... | 3 |
| Co op 2860 | Cooperative Education/Internship (Occupational)..... | 1 |

General Education Requirements

Each candidate for an Associate in Applied Science (A.A.S.) degree shall satisfactorily complete a minimum of 18 credits in General Education. Please consult the *Student Planning Worksheet* for a list of specific courses that can be taken. The following summarizes the minimum credits required in each of the specified General Education areas:

Communications: 6 credits required

Recommended courses: English 1101, Speech 1100

Physical/Life Sciences: 3 to 5 credits required

Select at least one course with a lab component.

Recommended course: Physics 1100

Mathematics: 3 to 5 credits required

Recommended course: Mathematics 1100 or 1428

Humanities and Fine Arts: 3 credits required

Recommended course: See the *Student Planning Worksheet* for course options.

Social and Behavioral Sciences: 3 credits required

Recommended course: See the *Student Planning Worksheet* for course options.

Additional A.A.S. Degree Requirements

A minimum of 2 credits must be completed from the list of courses in the Global/Multicultural Studies or Contemporary Life Skills category.

Recommended course: See the *Student Planning Worksheet* for course options.

Key First Semester Courses

For a full-time student, the following courses are recommended:

| | |
|---|---|
| English 1101 or 1105..... | 3 |
| Mathematics 1100..... | 3 |
| Airc 1100..... | 3 |
| Airc 1110..... | 3 |
| EPA Certification..... | 1 |
| Humanities/Social and Behavioral Sciences requirement.... | 3 |

Program Notes

1. Refer to the current College of DuPage *Catalog* for course prerequisites.
2. Many courses transfer to baccalaureate-granting institutions. Consult with a program adviser to set up a program of study that meets your needs.

Additional Degrees offered by Heating, Air Conditioning and Refrigeration

Building Environment Degree: 66 total credits

Contractors Degree: 67 total credits

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Heating, Air Conditioning and Refrigeration

Service Technician Degree

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Advisers

If you are considering this program as an area of study,
consult with a faculty adviser in this field:

| | Location | Phone |
|---|-----------------|----------------|
| Herb Haushahn, coordinator E-mail: haushahn@cod.edu | TE 1063 | (630) 942-2599 |
| Jim Janich E-mail: janich@cod.edu | TE 1065 | (630) 942-3313 |