

# Heating, Air Conditioning and Refrigeration

## Building Environmental Degree

**Degree:** Associate in Applied Science

**Total Required Credits for Degree:** minimum of 66

*Program Requirements:* 38

*Program Electives:* 3

*Electives:* 6

*General Education Credits:* 19

**Code:** 3906

### About the Program

The Building Environmental degree is designed for students who want a career in building management and control. Students seeking this degree will be required to take the technical courses required for the HVAC program's Stationary Operators certificate, which will ensure their technical skills are strong. These courses will be complemented by business courses considered essential in the management arena.

Program web site: [www.cod.edu/hvacr](http://www.cod.edu/hvacr)

### Technical 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 1187	Central Heating Plants .....	3
Airc 2202	Commercial Air Conditioning .....	3
Airc 2230	Advanced Controls.....	3
Airc 2236	Central Cooling Plants.....	3
Airc 2250	System Balancing.....	2
Busin 1100	Introduction to Business .....	3
CIS 1150	Introduction to Computer Information Systems .....	3
Manag 2210	Principles of Management.....	3
<b>Total.....</b>		<b>38</b>

### Program Electives

Select 3 credits from any Air Conditioning courses.

### Electives

Select up to 6 credit hours from the courses listed below:

Airc 2862	Cooperative Education/Internship (Occupational) .....	2
Manag 2170	Project Management.....	3
Manag 2240	Human Resource Management .....	3

### General Education Requirements

Each candidate for the Building Environmental Associate in Applied Science (A.A.S.) degree shall satisfactorily complete a minimum of 19 credits in General Education. The following summarizes the courses 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:* Biology 1110 (Chemistry 1105 or Physics 1100 may be substituted.)

**Mathematics:** 3 to 5 credits required

*Recommended course:* Mathematics 1115

**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:* Psychology 1100

### 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.

*Required course:* Air Conditioning 1110 (already listed under Technical Program Requirements)

### Key First Semester Courses

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

Airc 1100	Refrigeration Principles.....	3
Airc 1108	Refrigerant Certification .....	1
Airc 1110	Introduction to Controls .....	3
Busin 1100	Introduction to Business .....	3
English 1101	English Composition I .....	3
Math 1115	Technical Mathematics I.....	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

Service Technician Degree.....	64 total credits
Contractors Degree .....	66 total credits

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Building Environmental Degree

*(continued from page 1)*

## **Advisers**

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

	<b>Location</b>	<b>Phone</b>
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