



DEGREE CODES:

- AAS 0117
- AC 0118
- BC (CR) 0153
- BC (DR) 0177
- BC (H) 0178

PATHWAY: Air Conditioning and Refrigeration

Visit your College Advisor, ccc.edu, or your college's Transfer Center for more information.

This is an **example course sequence** for students interested in pursuing Air Conditioning and Refrigeration. It does not represent a contract, nor does it guarantee course availability. If this pathway is followed as outlined, you will earn Basic Certificates (BC's) in Commercial Refrigeration (CR), Domestic Refrigeration (DR) and Heating (H), and an Advanced Certificate (AC) and an Associate in Applied Science (AAS) degree in Air Conditioning and Refrigeration. One course will satisfy the Human Diversity (HD) requirement, and is labeled with an (HD) in the sequence below.

The AAS in Air Conditioning and Refrigeration studies the design, selection, maintenance, testing and installation of residential and commercial air conditioning, refrigeration and heating and ventilation systems, and business skills. The degree can lead to self-employment or employment as an assistant to engineers in an industrial or business facility, air conditioning and refrigeration mechanic, furnace installer, oil burner mechanic or a gas furnace mechanic with cooling and heating dealers, contractors, or utility companies.

Choose your courses with your College Advisor.

Communications and mathematics pre-credit requirements. Placements based on current placement instrument, ACT or department chair recommendation.			College-level courses that can be taken while in pre-credit courses.	
ENGLISH PLACEMENT	READING PLACEMENT	MATHEMATICS PLACEMENT	GENERAL EDUCATION COURSES	ELECTIVE COURSES
<input type="checkbox"/> ESL/FS Writing	<input type="checkbox"/> ESL/FS Reading	<input type="checkbox"/> FS Mathematics I	<input type="checkbox"/> Humanities: Africana Studies 101	<input type="checkbox"/> College Success
<input type="checkbox"/> ESL/English 98	<input type="checkbox"/> ESL/Reading 99	<input type="checkbox"/> FS Mathematics II	<input type="checkbox"/> Mathematics/Science: Biology 107 OR Environmental Technology 107	<input type="checkbox"/> Air Conditioning 106
<input type="checkbox"/> ESL 99	<input type="checkbox"/> ESL Reading 100	<input type="checkbox"/> Mathematics 98		<input type="checkbox"/> Air Conditioning 107
<input type="checkbox"/> ESL/English 100	<input type="checkbox"/> Reading 125	<input type="checkbox"/> Mathematics 99		<input type="checkbox"/> Air Conditioning 121
				<input type="checkbox"/> Air Conditioning 156
				<input type="checkbox"/> Air Conditioning 204

SEMESTER-BY-SEMESTER PROGRAM PLAN FOR FULL-TIME STUDENTS

All plans can be modified to fit the needs of part-time students by adding more semesters.

D	AC	BC ^{CR}	BC ^{DR}	BC ^H	SEMESTER 1	CATEGORY	ACHIEVEMENTS & NEXT ACTIONS
•	•	•	•	•	Air Conditioning 120–Introductory Lab (2)	<i>Required Program Core</i>	DO THIS –Meet with advisor to discuss academic goals and plan coursework
•	•	•	•	•	Air Conditioning 104–Equipment and Systems Control (3)	<i>Required Program Core</i>	
•	•	•	•	•	Air Conditioning 101–Introduction to Air Conditioning I (3)	<i>Required Program Core</i>	
•	•	•	•	•	Air Conditioning 150–Introduction to Refrigeration (3)	<i>Required Program Core</i>	
•	•	•	•	•	Mathematics 107–Mathematics for Technicians (4)	<i>Required Program Core</i>	
15 CREDIT HOURS							
D	AC	BC ^{CR}	BC ^{DR}	BC ^H	SEMESTER 2	CATEGORY	ACHIEVEMENTS & NEXT ACTIONS
•	•	•	•	•	Mathematics/Science course (3)	<i>Mathematics/Science</i>	DO THIS –Meet with advisor to confirm plans
•	•	•	•	•	English 101–Composition I (3)	<i>Communications</i>	
•	•	•	•	•	Air Conditioning 102–Introduction to Air Conditioning II (3)	<i>Required Program Core</i>	
•	•	•	•	•	Air Conditioning 105–Owner Contractor Management (3)	<i>Required Program Core</i>	
•	•	•	•	•	Air Conditioning 151–Commercial Refrigeration (3)	<i>Required Program Core</i>	
•	•	•	•	•	Air Conditioning 160–Introduction to Principles of Heating (3)	<i>Required Program Core</i>	
18 CREDIT HOURS							
D	AC	BC ^{CR}	BC ^{DR}	BC ^H	SEMESTER 3	CATEGORY	ACHIEVEMENTS & NEXT ACTIONS
•	•	•	•	•	Engineering 115–Engineering Communication/Blueprint (3)	<i>Required Program Core</i>	COMPLETION of Basic Certificate in Domestic Refrigeration COMPLETION of Basic Certificate in Heating DO THIS –Go to both Transfer Center and Career Center to explore both continued education and employment options
•	•	•	•	•	Program Elective (3)	<i>Elective</i>	
•	•	•	•	•	Air Conditioning 165–Heating Lab (2)	<i>Required Program Core</i>	
•	•	•	•	•	Air Conditioning 103–Duct Design and Layout (3)	<i>Required Program Core</i>	
•	•	•	•	•	Air Conditioning 155–Refrigeration Lab (2)	<i>Required Program Core</i>	
•	•	•	•	•	Social & Behavioral Sciences course (HD) (3)	<i>Social & Behavioral Sciences (HD)</i>	
17 CREDIT HOURS							

CITY COLLEGES OF CHICAGO 2019–20 ACADEMIC CATALOG

CONSTRUCTION TECHNOLOGY

D	AC	BC ^{CR}	BC ^{DR}	BC ^H	SEMESTER 4	CATEGORY	ACHIEVEMENTS & NEXT ACTIONS
•	•	•	•	•	Social & Behavioral Sciences course (3)	<i>Social & Behavioral Sciences</i>	COMPLETION of Associate in Applied Science in Air Conditioning and Refrigeration COMPLETION of Advanced Certificate in Air Conditioning and Refrigeration COMPLETION of Basic Certificate in Commercial Refrigeration <i>*This course does not count towards the AAS degree</i>
•	•	•	•	•	Program Elective (3)	<i>Elective</i>	
•	•	•	•	•	Air Conditioning 158–Commercial Refrigeration Lab (2)	<i>Required Program Core</i>	
•	•	•	•	•	Program Elective (2)	<i>Elective</i>	
•	•	•	•	•	Air Conditioning 157–Analysis Laboratory (2)*	<i>Required Program Core</i>	
•	•	•	•	•	Fine Arts & Humanities Course (3)	<i>Fine Arts & Humanities</i>	
15 CREDIT HOURS							
DEGREE MINIMUM: 62 CREDIT HOURS // PATHWAY TOTAL: 64 CREDIT HOURS							

PROGRAM ELECTIVES (AAS)

- | | |
|---|---|
| <input type="checkbox"/> Air Conditioning 106–Sheet Metal I (3) | <input type="checkbox"/> Air Conditioning 156–Domestic Refrigeration Laboratory (2) |
| <input type="checkbox"/> Air Conditioning 107–Welding I (3) | <input type="checkbox"/> Air Conditioning 204–Advanced Control Systems (3) |
| <input type="checkbox"/> Air Conditioning 121–Advanced Laboratory (2) | |

D = DEGREE // AC = ADVANCED CERTIFICATE // BC = BASIC CERTIFICATE

Programs offered at:

