

# Air Conditioning, Heating & Refrigeration Technology

Career Technologies

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## ABOUT THIS FIELD

The Air Conditioning, Heating, and Refrigeration Technology curriculum provides the basic knowledge to develop skills necessary to work with residential and light commercial systems.



## WHAT YOU'LL STUDY

Topics include mechanical refrigeration, heating and cooling theory, electricity, controls, and safety. The diploma program covers air conditioning, furnaces, heat pumps, tools and instruments. In addition, the AAS degree covers residential building codes, residential system sizing, and advanced comfort systems.



## WHAT YOU CAN DO

Diploma graduates should be able to assist in the start up, preventive maintenance, service, repair, and/or installation of residential and light commercial systems. AAS degree graduates should be able to demonstrate an understanding of system selection and balance and advanced systems.

**Southwestern**  
COMMUNITY COLLEGE

### PROGRAM START DATES:

Fall Semester

### FOR MORE INFORMATION CONTACT:

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# Air Conditioning, Heating & Refriger. Tech.

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### CLASSES YOU'LL NEED TO TAKE

#### DIPLOMA - D35100

Total Semester Hour Credits: 38-41

#### FALL SEMESTER 1

Prefix	#	Title	Class	Lab	Clinical	Credit
ACA	111	College Student Success	1	0	0	1
AHR	110	Intro into Refrigeration	2	6	0	5
ISC	112	Industrial Safety	2	0	0	2
Totals			5	6	0	8

#### SPRING SEMESTER 1

AHR	112	Heating Technology	2	4	0	4
CIS	110	Introduction to Computers	2	2	0	3
WLD	110	Cutting Processes	1	3	0	2
Totals			5	9	0	9

#### SUMMER SEMESTER

COM	120	Interpersonal Communication	2	2	0	3
MAT	110	Mathematical Measurement & Literacy	2	2	0	3
Totals			4	4	0	6

#### FALL SEMESTER 2

AHR	113	Comfort Cooling	2	4	0	4
BPR	130	Blueprint Reading	3	0	0	3
Totals			5	4	0	7

#### SPRING SEMESTER 2

AHR	114	Heat Pump Technology	2	4	0	4
ELC	111	Intro to Electricity	2	2	0	3
<b>Choose one of the following:</b>						
WBL	111	Work Based Learning I	0	0	10	1
WBL	112	Work Based Learning I	0	0	20	2
WBL	114	Work Based Learning I	0	0	40	4
Totals			4	6	10-40	8-11

#### Certificate - C35100

Total Semester Hour Credits: 13

#### FALL SEMESTER 1

Prefix	#	Title	Class	Lab	Clinical	Credit
AHR	110	Intro to Refrigeration	2	6	0	5
Totals			2	6	0	5

#### SPRING SEMESTER 1

AHR	112	Heating Technology	2	4	0	4
Totals			2	4	0	4

#### SUMMER SEMESTER 1

AHR	113	Comfort Cooling	2	4	0	4
Totals			2	4	0	4