



HEATING, VENTILATION, AIR CONDITIONING/REFRIGERATION Refrigeration Certificate, 26 Credits

Today's shortage of qualified technicians makes trained and highly skilled HVAC/R graduates very much in demand for the exciting new technological requirements of the residential and commercial HVAC/R industry. Independent and critical thinking men and women instilled with trouble-shooting and electrical control circuit skills are vital for the future installation and servicing of HVAC/R equipment. The HVAC/R program at SCC will prepare individuals for entry-level positions in the HVAC/R field. To participate in this program, one should have a strong mechanical aptitude, strong math skills and enjoy solving problems.

NOTE: Below is the recommended course sequence for students who start in the **FALL**.

Semester One (Fall) – 12 Credits

Course ID	Course Name	Credits
HVAC2000	Electrical Circuits	2
HVAC2010	IPH Motors & Auxiliary Controls	2
HVAC2100	Refrigeration Theory	2
HVAC2110	Refrigeration Controls	2
HVAC2120	Testing Refrigeration Systems	2
HVAC2251	Brazing	2

Semester Two (Spring) – 14 Credits

HVAC2205	Coolers/Freezers Electrical Systems	3
HVAC2215	Coolers/Freezers Refrig. Diagnostic	3
HVAC2220	Commercial Ice Makers	3
HVAC2230	Commercial Alternative Systems	1
HVAC2240	Central Air Conditioning	2
HVAC2325	Commercial Package Heat/Cool Units	2

Program Core Competencies

Graduates of this program will be able to:

1. Test electrical circuits
2. Build or repair a refrigeration system
3. Conduct testing of different heating systems
4. Recover system refrigerants
5. Identify electrical, heating and refrigeration components

Offered on North Mankato Campus

Admission Dates: Fall & Spring Semesters

This program has an online option for one or more of its courses. Contact Advisor for online option availability. For more information, please visit www.online.southcentral.edu.

Program Advisors:

Todd Huxford

HVAC/R Instructor
North Mankato, A-155
507-389-7230
todd.huxford@southcentral.edu

Jay Schmit

HVAC/R Instructor
North Mankato, A-156
507-389-7273
jay.schmit@southcentral.edu



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NOTE: Below is the recommended course sequence for students who start in the **SPRING**.

Semester One (Spring) – 16 Credits

Course ID	Course Name	Credits
HVAC2000	Electrical Circuits	2
HVAC2100	Refrigeration Theory	2
HVAC2110	Refrigeration Controls	2
HVAC2120	Testing Refrigeration Systems	2
HVAC2251	Brazing	2
HVAC2220	Commercial Ice Makers	3
HVAC2230	Commercial Alternative Systems	1
HVAC2240	Central Air Conditioning	2

Semester Two (Fall) – 10 Credits

HVAC2010	IPH Motors & Auxiliary Controls	2
HVAC2205	Coolers/Freezers Electrical Systems	3
HVAC2215	Coolers/Freezers Refrig. Diagnostic	3
HVAC2325	Commercial Package Heat/Cool Units	2

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