

Heating, Ventilation, Air Conditioning, and Refrigeration (BP/EP) Associate in Applied Science Degree

Semester Sequence

Offered at Brooklyn Park and Eden Prairie

First Semester

HVAC1000	Electrical Circuits	3
HVAC1005	OSHA 30-Hour Construction Safety Training	2
HVAC1010	1PH Motors and Auxiliary Controls	2
HVAC1020	Tube and Pipe Fabrication	2
HVAC1040	Basic Refrigeration	4
HVAC1050	Refrigerant Transition and Recovery	1
HVAC1055	Refrigeration Certification Exam	0
HVAC1110	Electrical Diagrams	2

Total Credits 16

Second Semester

HVAC1030	Sheet Metal	2
HVAC1071	Gas Heat Systems	4
HVAC1120	Psychrometrics	1
HVAC1140	Central Air Conditioners	3
HVAC1146	Residential Heat Pumps	2
HVAC1151	Hydronic Heat Systems	2
MATH1007	Math for the Trades	2
SOCI2100	Introduction to Sociology	3
	or	
	Choose 3 credits from MnTC Goal Area 5	3

Total Credits 19

Summer Semester

General Education Electives	6
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Total Credits 6

Third Semester

(HVAC Courses offered at Eden Prairie only)

HVAC2001	Packaged Heating and Cooling Equipment	4
HVAC2005	Commercial HVAC/R Safety and Servicing Procedures	2
HVAC2010	Commercial Heat Pump Systems	2
HVAC2030	Commercial Ice Making Machines	3
HVAC2041	Gas/Refrigeration (Mechanical) Code	1
HVAC2050	Electrical for Commercial HVAC&R Equipment	2
PHIL2100	Critical Thinking for College Success	3
	or	
PHYS2001	Introductory Physics	3
	or	
	Choose 3 credits from MnTC Goal Area 2	3

Total Credits 17

Fourth Semester**(HVAC Courses offered at Eden Prairie only)**

HVAC2111	Low Pressure Steam and Water Boilers	2
HVAC2121	Refrigerated Coolers and Cases	4
HVAC2130	Supermarket Refrigeration	3
COMM2050	Interpersonal Communication	3
	or	
	Choose 3 credits from MnTC Goal Area 1	3
	Technical Studies Electives	2

Total Credits 14**Technical Studies Electives**

Recommended:

HVAC1015	Residential Heat Load Calculation	1
HVAC1025	Mini-Split Air Conditioners	1
HVAC1081	Oil Heat Systems	1
HVAC1100	Service Call Completion	1
HVAC1155	Radiant Heat Systems	1
HVAC1160	Air Quality Systems	1
HVAC1175	R-410A Certification Training	1
HVAC1181	MN Class CBoiler Operator License	3
HVAC1185	R-410A Certification Exam	0
HVAC1190	MN Special Boilers License	1
HVAC2020	Pneumatic Controls	2
HVAC2060	Computer Room Air Conditioning	1
HVAC2100	Water Chiller Machines	3
HVAC2165	Air Handling Units	1

Choose a Total of: 2 Credits**General Education Electives**

Hennepin Technical College's 2000-level general education courses meet the guidelines of the Minnesota Transfer Curriculum (MnTC).

Choose a Total of: 6 Credits**MnTC Goal Area 1**

A complete list of MnTC courses and Goal Areas that can be used to meet General Education requirements can be found at www.hennepintech.edu. The same course cannot satisfy more than one MnTC Goal Area requirement.

COMM2020	Intercultural Communication	3
COMM2050	Interpersonal Communication	3
COMM2060	Small Group Communication	3
COMM2130	Public Speaking	3
ENGL2001	Workplace Correspondence	2
ENGL2050	Short Form Composition and Reporting	4
ENGL2121	Writing and Research	4
ENGL2125	Technical Writing	3
ENGL2130	Introduction to Creative Writing	3

MnTC Goal Area 2

BIOL2001	Biology in Society	4
BIOL2003	Nutrition and Health	3
BIOL2005	General Biology I	4
BIOL2040	Introduction to Forensic Science	3
BIOL2045	Human Biology	4
BIOL2125	Anatomy and Physiology I	4
BIOL2225	Anatomy and Physiology II	4

BIOL2235	Microbiology	4
COMM2060	Small Group Communication	3
MATH2050	Applications of Quantitative Reasoning	3
PHIL2100	Critical Thinking for College Success	3
PHYS2001	Introductory Physics	3
PHYS2015	Introductory Physics II	3
SOCI2100	Introduction to Sociology	3

MnTC Goal Area 5

ECON2200	Principles of Microeconomics	3
ECON2300	Principles of Macroeconomics	3
HIST1400	Contemporary World History	3
POLI1000	Introduction to American Government and Politics	3
PSYC2300	General Psychology	3
PSYC2310	Psychology Throughout the Lifespan	3
PSYC2330	Abnormal Psychology	3
SOCI2000	Marriage and Family	3
SOCI2100	Introduction to Sociology	3
SOCI2120	Introduction to Criminal Justice	3
SOCI2130	Food and Society	3
SOCI2200	Race in America	3

Graduation (72 credits)

Semester listings reflect the recommended sequence. Due to circumstances beyond our control, the information herein is subject to change without notice.

3/31/2021 : BP 3304 / EP 3305