

## Residential Heating, Ventilation and Air Conditioning (BP/EP) Diploma

### Semester Sequence - Friday/Saturday Students - Fall 2021 Start

#### Offered at Brooklyn Park Only

##### Fall 2021

|          |                                   |   |
|----------|-----------------------------------|---|
| HVAC1000 | Electrical Circuits               | 3 |
| HVAC1010 | 1PH Motors and Auxiliary Controls | 2 |
| HVAC1020 | Tube and Pipe Fabrication         | 2 |

#### Total Credits 7

##### Spring 2022

|          |                                     |   |
|----------|-------------------------------------|---|
| HVAC1040 | Basic Refrigeration                 | 4 |
| HVAC1050 | Refrigerant Transition and Recovery | 1 |
| HVAC1055 | Refrigeration Certification Exam    | 0 |
| HVAC1110 | Electrical Diagrams                 | 2 |
|          | Technical Studies Electives         | 1 |

#### Total Credits 8

##### Fall 2022

|          |                          |   |
|----------|--------------------------|---|
| HVAC1140 | Central Air Conditioners | 3 |
| HVAC1146 | Residential Heat Pumps   | 2 |
| HVAC1151 | Hydronic Heat Systems    | 2 |

#### Total Credits 7

##### Spring 2023

|          |                  |   |
|----------|------------------|---|
| HVAC1030 | Sheet Metal      | 2 |
| HVAC1071 | Gas Heat Systems | 4 |
| HVAC1120 | Psychrometrics   | 1 |

#### Total Credits 7

#### Additional Required Courses

Please note that students must take the following courses in order to graduate. The courses are available both day and evening.

|          |   |   |
|----------|---|---|
| HVAC1005 | OSHA 30-Hour Construction Safety Training | 2 |
| MATH1007 | Math for the Trades                       | 2 |
|          | General Education Electives               | 2 |

#### Total Credits 6

**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 |

**Choose a Total of: 1 Credit****General Education Electives**

If a General Education course is required it may not be used as a General Education Elective.

Minnesota Transfer Curriculum (MnTC) may also be used to meet General Education Elective requirements. A complete list of MnTC courses can be found at [www.hennepintech.edu](http://www.hennepintech.edu).

|          |  |   |
|----------|--|---|
| CCDS1000 | College Success Seminar                      | 1 |
| CCDS1020 | Interviewing Skills                          | 1 |
| CCDS1040 | Job Seeking Skills                           | 2 |
| CCDS1100 | Student Success                              | 3 |
| COMM1050 | Communication in the Workplace               | 2 |
| CPLT1000 | Computer Keyboarding                         | 2 |
| CPLT1005 | Advanced Keyboarding and Document Processing | 3 |
| CPLT1100 | Computer Essentials                          | 3 |
| CPLT1200 | Introduction to Macintosh                    | 3 |
| EMSV1020 | CPR/First Aid                                | 1 |
| ENGL1010 | Business English                             | 3 |
| ENGL1021 | Essay Fundamentals                           | 3 |
| ENGL1026 | Writing for Careers                          | 3 |
| MATH1007 | Math for the Trades                          | 2 |
| MATH1020 | Geometry and Trigonometry                    | 2 |
| MATH1050 | Math Pathways Plus for College and Careers   | 4 |
| MATH1060 | Math Pathways for College and Careers        | 3 |
| MATH1500 | Beginning Algebra                            | 3 |
| MATH1650 | Mathematical Literacy                        | 4 |
| MATH1700 | Intermediate Algebra                         | 3 |
| METS1000 | Computers in Manufacturing                   | 3 |
| PHYS1000 | Fundamentals of Physics                      | 2 |

**Choose a Total of: 2 Credits****Graduation (35 Credits)**

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

4/19/2021 : BP 3306 / EP