



## Heating, Air Conditioning, and Refrigeration Associate in Applied Science Four Semester Pathway Academic Year 2021-2022

| Semester 1        | Requirement                           | Recommended  | Prerequisites            | Corequisites            | Credits | My Plan |
|-------------------|---------------------------------------|--|--------------------------|-------------------------|---------|---------|
| FIGS 100          | Student Success Elective              |  |                          |                         | 1       |         |
| MATH 140          | College Algebra                       |  | MATH 050                 |                         | 3       |         |
| MATH 146          | Introduction to Trigonometry          |  | MATH 050                 | MATH 140                | 1       |         |
| HVAC 115          | Residential Heating Systems           | Offered Fall semester only                                     | HVAC Program Acceptance  | MATH 050                | 7       |         |
| ELEC 100          | Basic Electrical Principles for HVAC  |  | HVAC Program Acceptance  |                         | 3       |         |
| AEDD 100          | Print Reading                         |  | MATH 030                 |                         | 3       |         |
| <b>Semester 2</b> |                                       |  |                          |                         |         |         |
| HVAC 215          | System Design and Residential Heating | Offered Spring semester only                                   | ELEC 100, HVAC 115       |                         | 7       |         |
|                   | Social Science Elective               | PSYC 100 Intro to Psychology OR<br>SOCL 100 Intro to Sociology | See course prerequisites | See course corequisites | 3       |         |
| ENGL 100          | English Composition                   |  | ENGL 090, ENGL 095       |                         | 3       |         |
| <b>Semester 3</b> |                                       |  |                          |                         |         |         |
| ENGL 115          | Introduction to Literature            |  | ENGL 100 or ENGL 101     |                         | 3       |         |
| HVAC 120          | Basic Refrigeration                   | Offered Fall semester only                                     | HVAC Program Acceptance  | MATH 050                | 7       |         |
| PHYS 150          | College Physics I with Lab            |  | MATH 140                 |                         | 4       |         |
|                   | Fine Arts or Humanities Elective      |  | See course prerequisites | See course corequisites | 3       |         |
| <b>Semester 4</b> |                                       |  |                          |                         |         |         |
| HVAC 220          | Basic Air Conditioning                | Offered Spring semester only                                   | ELEC 100, HVAC 120       |                         | 7       |         |
| WELD 100          | Introduction to Welding               |  |                          |                         | 3       |         |
| PHYS 155          | College Physics II with Lab           |  | PHYS 150                 |                         | 4       |         |

Note that HVAC 115, 215, and ELEC 103 constitute the Heating sequence and could be taken year 2 by substituting the refrigeration sequence HVAC 120 and 220 in the first year of the program



# Heating, Air Conditioning, and Refrigeration

| <b>General Education Requirements</b> |                                  |                      |                     |                |            |
|---------------------------------------|----------------------------------|----------------------|---------------------|----------------|------------|
| <b>COURSE CODE</b>                    | <b>COURSE TITLE</b>              | <b>PREREQUISITES</b> | <b>COREQUISITES</b> | <b>CREDITS</b> | <b>MET</b> |
| ENGL 100                              | English Composition              | ENGL 090, ENGL 095   |                     | 3              |            |
| ENGL 115                              | Introduction to Literature       | or ENGL 101          |                     | 3              |            |
| FIGS 100                              | Student Success Elective         |                      |                     | 1              |            |
| MATH 140                              | College Algebra                  | MATH 050             |                     | 3              |            |
| MATH 146                              | Introduction to Trigonometry     | MATH 050             | MATH 140            | 1              |            |
| PHYS 150                              | College Physics I with Lab       | MATH 140             |                     | 4              |            |
| PHYS 155                              | College Physics II with Lab      | PHYS 150             |                     | 4              |            |
|                                       | Fine Arts or Humanities Elective |                      |                     | 3              |            |
|                                       | Social Science Elective          |                      |                     | 3              |            |

| <b>Major Required Courses</b> |                                      |                         |                     |                |            |
|-------------------------------|--------------------------------------|-------------------------|---------------------|----------------|------------|
| <b>COURSE CODE</b>            | <b>COURSE TITLE</b>                  | <b>PREREQUISITES</b>    | <b>COREQUISITES</b> | <b>CREDITS</b> | <b>MET</b> |
| AEDD 100                      | Print Reading                        | MATH 030                |                     | 3              |            |
| ELEC 100                      | Basic Electrical Principles for HVAC | HVAC program acceptance |                     | 3              |            |
| HVAC 115                      | Residential Heating Systems          | HVAC program acceptance | MATH 050            | 7              |            |
| HVAC 120                      | Basic Refrigeration                  | HVAC program acceptance | MATH 050            | 7              |            |
| HVAC 215                      | System Design & Industrial Heating   | ELEC 100, HVAC 115      |                     | 7              |            |
| HVAC 220                      | Basic Air Conditioning               | ELEC 100, HVAC 120      |                     | 7              |            |
| WELD 100                      | Introduction to Welding              |                         |                     | 3              |            |