

Heating, Ventilation, Air Conditioning & Refrigeration

Offered at MCC-Business & Technology

This program offers degree and certificate options leading to heating, ventilation and air conditioning careers.

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| A.A.S. HVAC | 64-67 Credits |
| Energy Efficiency Certificate | 41 Credits |
| HVAC Advanced Certificate | 42-43 Credits |
| HVAC Certificate | 24 Credits |

A.A.S. Heating, Ventilation and Air Conditioning

201805 Revised 4/2013 (Summer 2013)

| General Education Requirements | Credits | Semester Taken | Prerequisites |
|---|--------------|----------------|--|
| COLL 100 First Year Seminar | 1 | | |
| ENGL 101 Composition and Reading I | 3 | | ENGL 90 with a minimum grade of S or appropriate placement score |
| HIST 120 United States History to 1865 or HIST 121 United States History Since 1865 or POLS 135 Introduction to Political Science or POLS 136 Introduction to American National Politics or POLS 137 Introduction to State and Local Politics | 3 | | |
| Option 1: MATH 103 Technical Mathematics I or MATH 103R Technical Mathematics I w/ review or MATH 120 College Algebra or MATH 104 Technical Mathematics II or MATH 130 Trigonometry Option 2: MATH 150 PreCalculus or higher | 5-7 | | MATH 31 with a grade of S or appropriate placement (MATH 103 and MATH 104) MATH 95 with a grade of C or appropriate placement (MATH 120 and MATH 150) MATH 120 or appropriate placement score (MATH 130) |
| COMM 100 Fundamentals of Speech | 3 | | ENGL 90 with a minimum grade of S or appropriate placement score. |
| Any course numbered 100 or higher from the following disciplines: ART, ANTH, COMM, ECON, ENGL, Foreign Language, GEOG (except 104 or 110 and GIS courses), HIST, HUMN, MUSI, PHIL, POLS, PSYC, SIGN, SOSOC, SOCI, THEA | 4-5 | | See Courses section of this catalog for individual course prerequisites. |
| Minimum Total General Education Credit Hours | 18 | | |
| Specific Program Requirements | | | |
| EHSS 111 Intro to Health & Safety for General Industry or EHSS 112 Intro to Health & Safety for Construction | 1 | | |
| HVAC 109 Electricity for HVAC/R Technicians | 4 | | |
| HVAC 111 Principles of Heating, Ventilation and Air Conditioning | 3 | | |
| HVAC 120 Fundamentals of Refrigeration | 4 | | |
| HVAC 135 Residential Heating and Air Conditioning I | 4 | | HVAC 109 (or take concurrently), HVAC 111, 120 |
| HVAC 136 Residential Heating and Air Conditioning II | 4 | | HVAC 135 |
| HVAC 221 Commercial Refrigeration | 4 | | HVAC 109, 120, 136 |
| HVAC 230 Sheet Metal Layout and Fabrication | 4 | | |
| HVAC 235 Systems Installation | 3 | | HVAC 136 and 230 |
| HVAC 240 Geo-Thermal & Air Source Heat Pumps | 3 | | HVAC 136 |
| INTE 124 Employment Strategies for Technical Careers | 2 | | |
| INTE 224 Energy Management, Efficiency and Conservation | 3 | | |
| 6 hours from the following: HVAC/INTE/WELD electives | 6 | | |
| Total Credit Hours Required | 64-67 | | |