



Associate of Applied Science Degree

Credit Hours Required for Graduation:  
Associate of Applied Science Degree: ..... 65.5



For more information contact:

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There is a high demand for well-trained HVAC technicians nationwide, and it can also be very satisfying to help people with heating and cooling issues. Professionals in the HVAC/R industry design, build, install, service, maintain, troubleshoot, and repair heating and cooling systems year-round.



The partnership between the HVAC program at SCC and Shanahan's has been essential in keeping our business supported with well-rounded individuals in the HVAC trade. Over the last several decades, we have grown and adapted new technology. Much of this was through our involvement with SCC faculty and staff. The graduate employment rate and job opportunities are key indicators of the value of this program. We truly appreciate our relationship with all of the programs at SCC.

- Todd Hilfiker, IES Commercial Inc.  
dba Shanahan M&E



## Top Career Options

- Maintenance Specialist
- Building Engineer
- Service Technician
- Heating System Specialist
- Service Manager



## Graduate Earnings

Recent graduates report an average starting wage of \$16.65 per hour.

Prior to graduation, students will be required to take the Industry Competency Exam. The ICE measures industry-agreed standards of basic competencies for entry-level technicians.

|  |                 |
|--|-----------------|
| 2019-2020 Tuition/Fee Rate Per Credit Hour |                 |
| Nebraska Resident                          | \$108           |
| Out-of-state tuition/fee rate              | \$129           |
| <b>Estimated Expenses</b>                  |                 |
| Tuition/Fees                               | \$ 7074         |
| Books                                      | 2175            |
| Special Fees                               | 255             |
| Tools/Supplies                             | 1876            |
| <b>Total:</b>                              | <b>\$11,380</b> |

# General Education Requirements

Contact your program advisor to select general education courses from each category, which will meet your program's graduation requirements. See the General Education pages for a complete list. (One class from each area below).

|   |         |
|---|---------|
| GELO #1: Oral Communications                                | 3.0     |
| GELO #2: Written Communications                             | 3.0     |
| GELO #3: Critical Thinking & Problem Solving                | 3.0-4.0 |
| PHYS1150 Descriptive Physics (Recommended)                  |         |
| GELO #5: Analytical, Quantitative, and Scientific Reasoning |         |
| MATH1020 Technical Math (Recommended)                       | 3.0     |

(Plus one class from the two areas listed below)

|   |                 |
|---|-----------------|
| GELO #6: Career and Life Skills           |                 |
| GELO #4: Global Awareness and Citizenship | <u>3.0</u>      |
|   | 15.0-16.0 hours |

# HVAC/R Required Courses

| Course # | Course title                  | Credit hrs |
|----------|-------------------------------|------------|
| HVAC1109 | Electrical Theory/Lab         | 4.0        |
| HVAC1131 | Refrigeration Systems I       | 3.0        |
| HVAC1132 | Piping Practices              | 2.0        |
| HVAC1226 | Refrigeration Lab I           | 4.5        |
| HVAC1237 | Refrigeration Systems II      | 3.5        |
| HVAC1251 | Hydronic Heating              | 3.0        |
| HVAC1330 | Residential Controls I        | 2.0        |
| HVAC1331 | Manual J/Manual D             | 2.5        |
| HVAC1336 | Sheet Metal Fabrication       | 2.0        |
| HVAC1363 | Heat Pump Systems             | 2.0        |
| HVAC1434 | Refrigeration Lab II          | 2.5        |
| HVAC1450 | EPA Refrigerant Certification | 1.5        |
| HVAC1452 | Residential Install Lab       | 2.5        |
| HVAC1461 | Residential Controls II       | 2.0        |
| HVAC2600 | HVAC/R Lab                    | 2.0        |
| HVAC2610 | HVAC Troubleshooting          | 3.0        |
| HVAC2649 | Commercial HVAC Systems       | 2.5        |
| HVAC2900 | Internship or                 |            |
| HVAC2901 | Cooperative Experience        | 4.0        |
| ACFS2020 | Career Development            | 1.0        |
| WELD1190 | O/A and GMAW Welding          | <u>1.0</u> |
|          |                               | 50.5 hours |

