



## Heating, Ventilation, Air Conditioning and Refrigeration Mission Statement and Educational Goals

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<b>Division:</b> Technical Education	<b>Discipline:</b> Heating, Ventilation, Air Conditioning and Refrigeration
<b>Mission Statement</b>	
<p>The Heating, Ventilation, Air Conditioning and Refrigeration (HVAC) Program embraces the college mission statement and provides for life-long learning opportunities to students seeking, or in the process of developing careers in the manufacturing and service industries as heating, ventilation, air conditioning and refrigeration technicians. The program is committed to providing local industry with highly trained HVAC technicians. Graduates gain the knowledge necessary to meet the everchanging needs of the industries in our district. Through a system that assesses the performance and progress of each student during the pursuit of his/her professional development, the program ensures that its students learn what the profession requires.</p>	
<b>Educational Goals</b>	
This Discipline/Program at Southwestern Illinois College will graduate students that can:	
1. Demonstrate safe and professional behaviors complimentary to the HVAC field. (Oral Communication & Personal Accountability )	
2. Describe the mechanical refrigeration cycle and its application to air conditioning and refrigeration equipment. (Critical Thinking)	
3. Explain the combustion process and its application to residential and commercial heating equipment. (Critical Thinking)	
4. Demonstrate competency in the use of HVAC service equipment commonly used in the field. (Critical Thinking)	
5. Collect data, disassemble, and assemble HVAC equipment to determine the operational status. (Critical Thinking & Writing)	
6. Demonstrate competency in the design and sizing of residential and commercial HVAC equipment. (Quantitative Literacy)	
7. Demonstrate knowledge of the regulations governing the use and safe handling of refrigerants. (Civic & Social Accountability)	
8. Demonstrate the ability to locate and utilize resources to foster continued learning and enrichment in the HVAC field. (Computer Literacy & Writing)	