The heating, ventilation, air conditioning and refrigeration associate of applied science degree prepares the individual for a technical service career in residential or light commercial/industrial environmental systems. The student will study the mechanical and electrical/electronic systems involved in contemporary environmental controls. The academic requirements of the program provide a foundation for continued studies should the student decide to pursue his or her education or training.

The HVAC&R certificate program prepares the individual for basic, entry-level employment in the residential and/or light commercial heating, air-conditioning and refrigeration service industry. The essentials of the mechanical and electrical systems of contemporary air-conditioning, heating and refrigeration systems are addressed throughout the program.

The general education core will transfer to a variety of colleges and universities. Contact a counselor or faculty member at any of the colleges for specific information and to obtain the recommended sequencing of courses.

FOR MORE INFORMATION:
Jessica Olsen
281.765.7923
Jessica.Olsen@LoneStar.edu
### Heating, Ventilation, Air Conditioning & Refrigeration AAS Degree

**Certificate I (Optional)**  
16 - 38 Credits

**AAS Degree**  
60 Credits

<table>
<thead>
<tr>
<th>Corporate College</th>
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<td>Professional development opportunities are available for additional training and licensure.</td>
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<tr>
<th>HVAC &amp; Refrigeration Commercial Servicing Certificate</th>
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<tr>
<td>HVAC &amp; Refrigeration Residential Servicing Certificate</td>
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<tr>
<td>HVAC Occupational Entry Certificate</td>
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**Learning Framework: 1st Year Experience**

### Certificate I (Optional) 16 - 38 Credits

- Basic Electricity for HVAC
- Refrigeration Principles
- Humanities/Fine Arts Elective
- Introduction to Communication OR Public Speaking OR Business and Professional Communication
- Residential Air Conditioning
- Gas and Electric Heating
- EPA Recovery Certification Preparation
- Air Conditioning Troubleshooting

### AAS Degree 60 Credits

- Residential Air Conditioning Systems Design
- Advanced Electricity for HVAC
- Advanced Air Conditioning Controls
- Commercial Air Conditioning
- Special Topics in Heating, Air Conditioning, and Refrigeration
- Heat Pumps
- Principles of Sociology
- Composition & Rhetoric
- College Math for Liberal Arts
- Commercial Refrigeration
- Industrial Air Conditioning

**Representative career titles and job positions for this program plan include:**

- **HVAC Technician**
- **HVAC Service Technician**
- **HVAC Mechanic**

**Median Wage:** $43,258  
**Hourly Wage:** $14.74

1. Median Wage: $43,258  
   Hourly Wage: $14.74  

2. Position titles vary by employer and location.

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**Complete your Heating, Ventilation, Air Conditioning & Refrigeration AAS in 2 years!**

For more information on gainful employment, visit [LoneStar.edu/GainfulEmployment](http://LoneStar.edu/GainfulEmployment).