

Grayson College Course Catalog

Overview

Grayson College's Heating, Air Conditioning and Refrigeration Technology program offers three levels of training and skills. Many students start with the Technician Apprentice Certificate, then build on those skills with the Technician Certificate. The highest level is the Associate of Applied Science degree. Grayson College's courses teach the skills recommended by area employers who work in the industry. The program is offered on the Main Campus in the Career as well as the South Campus, which is equipped with the latest technology.

Programs of study include:

- Technician Apprentice Certificate (20 hours)
- Technician Certificate (36 hours)
- Associate of Applied Science Degree (60 hours)

Course Requirements

Grayson College requires a high school diploma or equivalent. The Associate of Applied Science Degree requires that TSI requirements are met.

Interested students are strongly encouraged to get advised by a success coach or faculty advisor and follow a degree plan, as some courses are not available every semester.

Capstone Experience

To earn each certificate in this program, all students must successfully complete a comprehensive exit exam prior to graduation.

Local Employers

Advanced Cooling, Four Star Heating & Air Conditioning, Reynolds Electric & Air Conditioning, and Champion Cooler

AAS Degree Requirements

Associate of Applied Science Degree - Heating, Air Conditioning and Refrigeration Technology

| Subject | Semester Hours |
|---|------------------|
| HART 1407 (Refrigeration Principles) | 4 |
| HART 1401 (Basic Electricity for HVAC) | 4 |
| ENGL 1301 (Composition I) | 3 |
| BUSI 1301 (Business Principles) | 3 |
| * MATH 1314 , 1332 , or 1342 Math Core | 3 |
| HART 1445 (Gas and Electric Heating) | 4 |
| HART 2442 (Commercial Refrigeration) | 4 |
| * Social/Behavioral Science Core | 3 |
| * SPCH 1311 , 1315 , or 1321 Communication Core | 3 |
| HART 2436 (Air Conditioning Troubleshooting) | 4 |
| * Lang. Phil. Culture/Creative Arts Core | 3 |
| *Elective | 4 |
| HART 2449 (Heat Pumps) | 4 |
| HART 2445 (Air Conditioning Systems Design) | 4 |
| DFTG 1317 (Architectural Drafting-Residential) | 3 |
| BUSG 2309 or BUSG 1302 or BUSG 1304 or BMGT 1305 or BMGT 1327 | 3 |
| HART 1441 (Residential Air Conditioning) | 4 |
| | total: 60 |

HART 1445, HART 2442, HART 2436, HART 2445 and HART 1441 are taught on a rotating basis: two classes every 3rd semester.

*Please review your Student Planner or contact your Student Success Coach/Faculty Advisor to review which courses may be used to fill this degree requirement.

Capstone Experience. All students must complete the capstone requirement: successful completion of a comprehensive exit exam prior to graduation. DFTG 1325 must be completed before any certificate is awarded

Certificate Degree Requirements

Heating, Air Conditioning, and Refrigeration Technician Apprentice - Certificate

| Subject | Semester Hours |
|--|------------------|
| HART 1407 (Refrigeration Principles) | 4 |
| HART 1401 (Basic Electricity for HVAC) | 4 |
| HART* | 4 |
| HART* | 4 |
| DFTG 1425 (Blueprint Reading) | 4 |
| Capstone Experience | |
| | total: 20 |

*Any two of the six (6) remaining HART courses. HART 1445, HART 2442, HART 2449, HART 2436, HART 2445 and HART 1441 are taught on a rotating basis. Two classes every 3rd semester.

Capstone Experience. All students must complete the capstone requirement: successful completion of a comprehensive exit exam prior to graduation. DFTG 1325 must be completed before any certificate is awarded

*Please review your Student Planner or contact your Student Success Coach/Faculty Mentor to review which courses may be used to fill this degree requirement.

Heating, Air Conditioning, and Refrigeration Technician - Certificate

| Subject | Semester Hours |
|--|------------------|
| HART 1407 (Refrigeration Principles) | 4 |
| HART 1401 (Basic Electricity for HVAC) | 4 |
| HART* | 4 |
| HART* | 4 |
| DFTG 1425 (Blueprint Reading) | 4 |
| HART* | 4 |
| HART* | 4 |
| HART* | 4 |
| HART* | 4 |
| Capstone Experience | |
| | total: 36 |

*All six (6) of the remaining HART courses.

Capstone Experience. All students must complete the capstone requirement: successful completion of a comprehensive exit exam prior to graduation.

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Grayson College
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