



Credits, Articulations & Prerequisites



This program offers excellent career opportunities for both male and female students.

Credits:

Cross credit with some academic courses (including 4th year related math, VPAA, math & science) may be available and will be reviewed on a case-by-case basis with each district's counseling department.

Dual Enrollment:

- Henry Ford College - up to 30 credit hours
- Credential awarded upon graduation

Prerequisite:

- Junior Status
- GPA of 2.0 or higher in core class
- Program Application required before acceptance.

Program Description

The courses offered present an overall study of the principles of energy production and its uses. Course work provides students who are successful with a well-rounded background in the principles of measurement, conservation, operation and repair of residential/commercial heating, air conditioning, and refrigeration equipment.

Students will utilize standard safety procedures, troubleshoot electrical systems, interpret diagrams relevant to the HVAC-R industry, perform preventative maintenance, demonstrate effective project management skills, and design and select equipment for HVAC-R systems. Further emphasis on "soft skills" for communication with customers will be undertaken.

Attendance history must meet the standard of the sending school district and additional prerequisites may be required by Henry Ford College.

Program graduates may apply to a 3 + 1 Bachelor of Applied Science.

Special Features

In cooperation with Henry Ford College, the successful Heating, Ventilation & Cooling (HVAC-R) student will finish high school having completed up to 30 **hours of undergraduate** credit. Should a student choose to, they can complete an Associate's degree at HFC within one year of high school graduation.

Leadership and work-based learning opportunities available.

Students will meet at Henry Ford College.

STATEMENT OF COMPLIANCE

The Downriver Career Technical Consortium complies with all federal laws and regulations of the U.S. Department of Education. It is the policy of the Downriver Career Technical Consortium that no person on the basis of race, color, religion, national origin or ancestry, age, gender, marital status, disability or limited English proficiency shall be discriminated against or excluded from participation in any program or activity to which it is responsible or for which it receives financial assistance from the U.S. Department of Education. Furthermore, the consortium will encourage participation by all of the above.

Adopted by the Downriver Career Technical Consortium
November 23, 1992



Are you interested in heating and air conditioning for homes and businesses?

If you are interested in this program, please apply as a dual-enrolled student today:

hfcc.edu/steps/apply

Contact us with any questions.
School of Business,
Entrepreneurship, and Professional
Development, Trade & Apprentices:

313-845-9645
bepdinfo@hfcc.edu
Technology Bldg, Room: E-211

Faculty Contact:

Chad Richert
crichtert@hfcc.edu
Technology Building, E-211
313-317-1515

Our dual-enrollment Heating and Cooling program allows you to earn credit toward your career goals, beginning while you are still in high school. If you take all the courses in the sequence, you will finish the 30-credit-hour program within one year after graduating from high school.

In the HFC Heating and Cooling program, you will learn theory and gain valuable hands-on experience in the following areas:

- Commercial heating and refrigeration
- Light commercial controls
- Heating and cooling mechanical codes
- Installation
- Energy management
- Energy system design

After completing your program, you will have the option to become certified through exams for the Air Conditioning, Heating, Refrigeration Institute (AHRI), Air Conditioning Contractors of America (ACCA), or EPA Refrigerant Recovery. You may also take the State of Michigan Mechanical Contractors Test. These certification exams are not included in the program, but the program will prepare you for them.