

# Construction and Development Cluster



## Heating, Ventilation & Air Conditioning (HVAC) Program

### PROGRAM OF STUDY OVERVIEW:

Virtually every home has some form of heating, ventilation, air conditioning and refrigeration system. This means plenty of work for the skilled technician! The HVAC Program of Study provides students with the opportunities to learn about the industry as it relates to residential building.



Entrance Grades	Foundations of Building and Construction Technology (CORE)  1 Credit Double-blocked for One Quarter*	HVAC I  1 Credit Double-blocked for One Quarter*	HVAC II  2 Credits Double-blocked for One Semester  COMPLETER	HVAC III (optional**)  2 Credits Double-blocked for One Semester	Work Study (optional)
	*Students commit to completing CORE & HVAC I sequentially in a semester.			**By space available & teacher recommendation	
10 <sup>th</sup> Grade Entrance	Fall Sophomore		Spring Sophomore	**Spring Junior	Senior
11 <sup>th</sup> Grade Entrance	Fall Junior		Spring Junior	**Spring Senior	Senior
12 <sup>th</sup> Grade Entrance	Fall Senior		Spring Senior		

### IN THIS PROGRAM

Students will learn:

- the operating principles of HVAC systems and basic copper, carbon steel, and plastic piping practices;
- air distribution systems and chimney's vents and flues; and
- alternating current and cover transformers, and single-phase and three-phase power distribution.

### COURSE SEQUENCE

- Foundations of Building and Construction Technology
- HVAC I (A)
- HVAC II (A)
- HVAC III (optional)

(A) articulates college credit

For course descriptions, please see the WCPS Course Catalog @ <https://www.worcesterk12.com/>

### STUDENT ORGANIZATION



### CERTIFICATIONS

- NCCER Core: Intro Craft Skills
- NCCER HVAC Level I

### EARLY COLLEGE CREDIT PARTNERS



Also Anne Arundel, Baltimore and Montgomery Community Colleges