

# Construction and Development Cluster



## Welding Program

### PROGRAM OF STUDY OVERVIEW:

Welding is a high-tech industry that can take you places all over the world. From ladders to aircraft carriers, from NASCAR to national defense, and from the laboratory to sales and repair welding impacts virtually every industry. For instance, according to commercial divers and global statistics, the average underwater welding salary is \$54,340 annually and \$24.26 per hour. In the Welding Program of Study, students will master a variety of welding skills. The program is affiliated with the National Center for Construction Education and Research (NCCER).



Entrance Grades	Foundations of Building and Construction Technology (CORE)  1 Credit Double-blocked for One Quarter*	Welding I  1 Credit Double-blocked for One Quarter*	Welding II  2 Credits Double-blocked for One Semester  COMPLETER	Welding III (optional**)  2 Credits Double-blocked for One Semester	Work Study (optional)
	*Students commit to completing CORE & Welding 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 process of oxy-acetylene and SMAW (shielded metal arc welding);
- torch fusion welding and brazing;
- the GMAW (Mig) welding process using both solid core and flux core welding wire; and
- the GTAW (Tig) welding process

### COURSE SEQUENCE

- Foundations of Building and Construction Technology (CORE)
- Welding I
- Welding II
- Welding III

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

### STUDENT ORGANIZATION



### CERTIFICATIONS

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

### EARLY COLLEGE CREDIT PARTNERS

Anne Arundel, Baltimore and Montgomery Community Colleges