



## Credits, Articulations & Prerequisites

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

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### Credits:

Cross credit with some academic courses (including 4<sup>th</sup> 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.

### Articulations:

- Davenport University
- Ferris State University
- Washtenaw County Community College
- Wayne County Community College District

### Prerequisites:

- Junior status
- Grade of C or better and instructor approval to go on to the advanced level

## Program Description

Welding is a program designed to provide technical training for a career in welding or its related fields. This course specializes in lab work and shop experience concerned with all types of metal welding, brazing and flame cutting. Students will be exposed to a realistic industrial environment designed to foster safe working skills and practices. Students will also get experience working with all different types of metals and their properties and receive hands-on training in all aspects of metal fabrication, including but not limited to SMAW, GMAW, GTAW, FCAW, OAW, and brazing. Cutting processes such as OAC and plasma cutting will also be emphasized. In addition, students will experience hands-on application of all metal fabrication equipment including the use of high-speed steel drill press, brake, shears, punches, grinders, etc.

The advanced level covers Advanced Arc, Advanced Gas Tungsten, Advanced Gas Metal Arc, Advanced Flux Cored Arc, and oxyacetylene procedures with as much practical experience as possible. Instruction emphasizes properties of metals, blueprint reading, and welding symbols.

## Special Features

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*Students will have the opportunity to design and fabricate their own projects. They will also have the opportunity to participate in welding competitions including the Boilermakers, Ferris State University, and the Washtenaw Invitational. Work-based learning opportunities available.*

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### 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.