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

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## Credits, Articulations & Prerequisites

### 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:

- Baker College
- Wayne County Community College District

### Prerequisites:

- Grade of C or better in Math
- Grade of C or better and instructor approval to go on to the advanced level

## Program Description

Engineering Drafting (using CAD) is a program designed as an introduction to computer graphics using manual drafting and Auto CAD software. Students will learn to use the computer components, terms and commands associated with the AutoCAD system. Students will work with multi-view, detail/assembly, and exploded and pictorial assembly drawings. The program will involve becoming familiar with the materials and processes of the machine trades. All students will create and print a set of working drawings which will include all required details, an assembly, and pictorial drawings.

At the advanced level, students will move on to create 3-D drawings using AutoCAD, Inventor, and SolidWorks (all software is updated regularly to stay current with industry and post-secondary partners). After becoming proficient with this software, the students are then able to continue to create 3D Max or Maya.

## Special Features

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Students compete in the Michigan Industrial Technology Educational Society yearly student competition.

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.