

# Tech WORKS

Pre-Engineering



## Steps to complete a Tech WORKS in Pre-Engineering:

Student must complete the following course work in Science/Math with a “C” or above:

- Algebra I & II
- PreCalculus, Calculus/Trigonometry
- Physics
- Chemistry

Complete at least three total classes in Career Technology Education Department with a “C” or above

### Required courses:

- Computer Aided Drafting & Design (CADD)\*
- Engineering I

### Select one or more from the following:

- Engineering II
- Electricity / Electronics
- Architectural CAD\*
- Computer Technical Drafting
- Construction I
- Metals
- Auto Chassis
- Small Engines
- Manufacturing
- Welding
- Basic Gas Metal Arc Welding: INT366\*
- Introduction to Computer Science
- Advanced Placement Computer Science

Attend three career fairs

Attend two plant tours

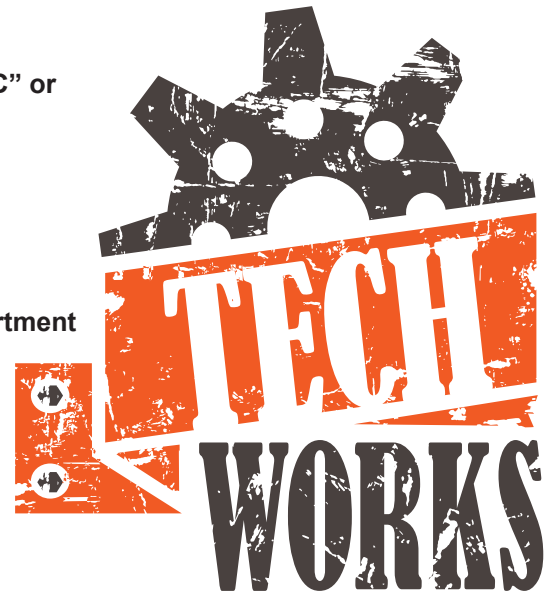
Go on at least one community college/college/university/apprenticeship program tour

Students must have a good attendance record, be in class on time and demonstrate cell phone etiquette during classes

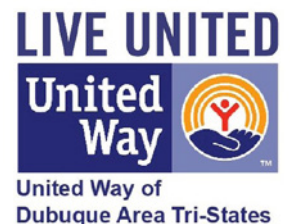
All students will successfully fulfill all DCSD requirements for graduation

\* Articulated classes - Allows high school students to earn college credit through agreements between their high schools and Northeast Iowa Community College. Area school districts and NICC agree on core competencies and performance levels to ensure credits are transferable to the College.

\*\* Concurrent classes - These classes enable high school students who have met the eligibility requirements of the College and high school to take college coursework.



**Dubuque**  
COMMUNITY SCHOOLS



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