

# Engineering



## Steps to pursue a career as an Engineer:

### Required courses:

- Algebra I & II
- PreCalculus, Calculus/Trigonometry
- PS9 - Physics and Chemistry
- Physics (must have two total semesters)
- Chemistry (must have two total semesters)
- Engineering Drafting & Design I
- Engineering I

### Select one or more from the following:

- Engineering II
- Engineering Drafting & Design II
- Electricity / Electronics
- Architectural Design
- Construction I
- Metals
- Auto Chassis
- Small Engines
- Manufacturing
- Welding
- Introduction to Professional Welding\*\*
- Computer Science Principles I
- Computer Science Principles II
- Advanced Placement Computer Science

### College level courses to consider:

- Comp I\*\*
- Comp II\*\*
- Public Speaking
- US History to 1877\*\*
- US History Since 1877\*\*
- AP Economics
- AP Calc BC
- AP Chemistry
- Developmental Psychology\*\*

Attend high school career fairs

Attend one company tour and one job shadow

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

All students will successfully fulfill all DCSD requirements for graduation



**Dubuque**  
COMMUNITY SCHOOLS



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