Industrial Technology Workshop

Instructor: Tim Sturgell   Email: Sturgell.tim@iowacityschools.org
Room Number: W106/108   Phone: 688-1210

Course Description: In this class students will learn how to run machinery, safety procedures of a shop, how to understand technical drawings, properly measure and work with materials to create projects. Projects may vary depending on access of materials. This class provides a project-based learning using a hands-on approach that is exciting and challenges students throughout the trimester. Classes will consist of "work" days and "think" days giving students the ability to ask questions and learn before they do.

Materials needed: Pen or Pencil, Planner, Folder

Objectives:
- Explain the relationship between the components of STEM
- Describe engineering and explain how engineers participate in or contribute to the invention and innovation of products.
- Describe impacts that technology has had on society.
- Distinguish between invention and innovation.
- Describe the design process and how it is used to aid in problem solving.
- Use the design process to solve a technical problem.
- Recognize design criteria and constraints.
- Apply concepts learned in decision making.
- Measuring by hand and with software.
- Learn about possible careers to be able to pursue in high school.

Grading:

A+ 97-100%	A 91-96%	A- 90%	
B+ 89%	B 81-88%	B- 80%	
C+ 79%	C 71-78%	C- 70%	
D+ 69%	D 61-68%	D- 60%	F 59% and Below

Rules and Expectations:
- Must be in seats when bell rings.
- While in the shop, hair must be pulled back, sweatshirt strings tucked in and any other loose item put away.
- No cell phones or other technology unless permitted by teacher.
- Keep workstation clean.
- No food, candy or drinks around workstations or in shop.
- Respect others, including their time and property.
- Follow all school rules.