

School: Crook County High School

Course Title: Manufacturing and Engineering Technology 2B

Instructor's Name: Mr. Billy Hall

Contact Phone (541)416-6900 ext.3152

Contact times: M-F 10:00 – 10:45 am & 3:10-3:30pm

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Course Description: *This is a project based course. Using Metal stock students will go through all of the steps of Fabricating or Milling a product from plans to a finished marketable product. Students will perform market and manufacturing process research then set up the manufacturing process for producing their product. Through the completion of the course students will learn the required setups and operations of hand and power tools; inspecting and quality control, and CNC programming. Students may be required to work in two or three person teams, but all students will be required to demonstrate their individual competencies. Students are required to practice all shop safety rules. Concepts also covered in this class include: design processes, properties of materials, safe use of tools and equipment, free enterprise, marketing principles, and career exploration.*

Learning Standards (Critical Content Power Standards)

By completing this course students will be able to:

- Use mathematics in the manufacturing process.
- Understand the application of the principles of science used in manufacturing.
- Summarize and explain how manufacturing businesses operate.
- Analyze and summarize how manufacturers improve performance.
- Assess types and sources of workplace hazards in order to maintain safe working conditions.
- Describe and employ technical skills and knowledge required for careers in manufacturing.

Materials:

Internet, ACES composites curriculum, machinery's handbook, Vex Robotics Curriculum, FANUC Curriculum.

Notification of the Right to Object to the Use of Materials

Any resident of the district may raise objection to instructional materials used in the district's educational program despite the fact that the individuals selecting such materials were duly qualified to make the selection and followed the proper procedure and observed the criteria for selecting such material.

The first step in expressing objection is consultation with the classroom teacher or

library staff and providing a brief written complaint. The staff member receiving a complaint regarding instructional materials shall try to resolve the issue informally through the discussion of the original assignment or the opportunity for an alternative assignment.

If not satisfied with the initial explanation or an alternative assignment, the person raising the questions will meet with a building administrator who, if unable to resolve the complaint, will provide a Request for Reconsideration form which will be given to the superintendent for action.

Goals

By the end of the semester 100% of students will meet or exceed subject level learning standards in Manufacturing as measured by a score of 70% or better on the final project.

Citizenship (Behavior Expectations)

Be in your seat on time when the bell rings.

Attendance will be taken during the first 10 minutes of class; you will be expected to be in your seat.

The Tardy and Attendance policy will be adhered to as indicated in your Student Handbook.

Be conscientious of the other students in the class.

Evaluation (grading)

Grades will be based 90% on projects and tests and 10% on classwork.

Grades will be based on the Oregon Skill Sets found on the following website.

<http://www.ode.state.or.us/apps/oss/default.aspx?cla=311&c=952&fa=2296>

Makeup Policy

Students have one more day than the number of days as they were absent (due to an excused absence only) to make up an assignment for credit.

No late work will be accepted beyond mid-terms for work due before midterms.

Extra Credit Policy:

Extra credit will be offered to students who have no missing or incomplete assignments.