

**METAL/WOODS
COURSE SYLLABUS
MR. JONES
431-2616 EXT. 4143**

COURSE DESCRIPTION:

This class is designed to provide students a variety of learning experiences using metals and woods. A variety of industrial jobs, machines, and processes will be demonstrated allowing students to develop and create jobs.

MISSOURI STATE LAW REQUIRES STUDENTS TO WEAR SAFETY GLASSES IN THE SHOP AT ALL TIMES!

Although safety will be emphasized, accidents can occur due to the learning environment, age of student and nature of class.

Shop fees will run **\$30.00.** Fees are expected to be paid before student is allowed to participate in the metal/wood laboratory.

INSTRUCTIONAL PHILOSOPHY:

The purpose of this class is to expand each student's knowledge of Industrial Technology. The proper use of common hand tools will be stressed initially then students will advance to machines. Safety will be emphasized and tested before the use of each machine. Whether a student's focus is in the career of CAD, engineering, or a technical/vocational field, a basic understanding in this area will be a solid foundation on which to build future success. Students will have the opportunity to develop the habits, skills, attitudes, and aptitudes that will help secure future employment.

MAJOR COURSE GOALS: Processes/Operations that may be covered are:

<p>METALS:</p> <ul style="list-style-type: none">• SHEET METAL• SPOT WELDING• ARC WELDING• MIG WELDING• OXY WELDING• PLASMA CUTTING• SOLDERING• ABRASIVE CUTTING• THREADING• GRINDING• DRILLING• LAYOUT	<p>WOODS:</p> <ul style="list-style-type: none">• TABLE SAW• BAND RADIAL ARM SAW• PLANERS• HAND PLANES• JOINTERS• DRILLING• ROUTER• SHAPER• WOOD JOINTS• FASTNERS• SANDING• FINISHING
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MAJOR COURSE OBJECTIVES/BENCHMARKS BY QUARTER:

1st QUARTER:

- Fundamentals of reading a ruler
- The fundamentals of metalworking
- Safety in the Metal Shop

2nd QUARTER

- Layout
- Arc Welding
- Mig Welding
- Plasma Cutting
- Oxy Cutting

3rd QUARTER

- Pad Weld
- T-Weld

4th QUARTER

- Vertical Weld
- Projects-if needed

MAJOR COURSE PROJECTS AND INSTRUCTIONAL ACTIVITIES: Major course projects will be given at the end of every quarter. These projects will be used to assess if each student is meeting the standard for each quarter.

REQUIRED/RECOMMENDED READINGS

Walker, R., John (1985).

Modern Metalworking. Tinley Park: The Goodheart-Wilcox Company, Inc.

Wagner, H., Willis (1983)

Modern Carpentry. Tinley Park: The Goodheart-Wilcox Company, Inc.

Wagner, H., Willis & Kicklighter, E., Clois (1991)

Modern Carpentry. Tinley Park: The Goodheart-Wilcox Company, Inc.

Feirer, L., John & Reirer, D., Mark (2002 5th edition)

Wood Technology & Processes. New York: Glencoe McGraw-Hill

Various Internet resources

COURSE ASSESSMENT PLAN:

Students will be graded daily on classroom participation. Along with daily grading students will be graded on a weekly/quarterly as well. All students will be given a daily participation with max being 20 points.

CLASSROOM EXPECTATIONS:

Students should be in their seat and ready to work before the bell rings. All behavior expectations are described in Central R-3 Student Handbook.

SUPPLIES AND MATERIAL NEEDED:

- 3 ring binder
- pencil
- Notebook specifically for General Shop

HOMEWORK POLICY AND GRADING SCALE:

Please refer to the Student Handbook for the Homework Policy. The grading scale is as follows:

A.....	100-95	C.....	76-73
A-	94-90	C-	72-70
B+.....	89-87	D+	69-67
B.....	86-83	D.....	66-63
B-	82-80	D.....	62-60
C+	79-77	F	59-0

EXTRAL HELP:

If extra help is needed the teacher will be in the Auto Cad laboratory at 7:15 every morning. Since I am assigned to high school and middle school campuses no extra help after school will be available.

TIME AND PLACE TO BE REACHED BY A PARENT:

If parents need to contact me you can reach me by calling Central R-3 High School.