



PLASMA CAM ART A-B (0118
AND 0119)

Nicholas Davis
Email: ndavis@msd134.org
Phone: ext 846
Teacher Website:
School Website: <http://mhs.msd134.org/>

2016-2017

Course Description

This class is designed to give students the opportunity to learn how to produce their own projects and use metal working equipment such as welders, grinders, rod iron equipment, and plasma cutters. Students will learn how to paint, stain, color, and heat-treat metal to produce different finishes. The focus of this class will be directed toward use of the plasma cam, which produces metal art.

Course Objectives

A. Safety

1. Determine the importance of Agricultural Metal Fabrication Technology
2. Reinforce basic technical skills
3. Identify safety practices
4. Identify laboratory management procedures

B. Metal Technology Skills

1. Determine uses of metal
2. Identify types of metal
3. Recognize properties of metal
4. Use appropriate bench metal techniques
5. Properly select and use oxy-fuel equipment
6. Properly select and use shielded metal arc welding equipment
7. Properly select and use gas metal arc welding equipment
8. Properly select and use gas tungsten arc welding equipment
9. Properly select and use plasma arc cutting and welding equipment
10. Properly apply specialty welding and cutting techniques

C. Cost Effective Construction Techniques

1. Utilize computer assisted design techniques
 2. Prepare construction plans and working drawings
 3. Determine recommended and required design features
 4. Read and interpret plans and working drawings
 5. Prepare bill of materials
 6. Fabricate and maintain agricultural equipment
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Course Units

Quarter 1	Quarter 2	Quarter 3	Quarter 4
A. Safety B. Metal Technology Skills	C. Cost Effective Construction Techniques	C. Cost Effective Construction Techniques	C. Cost Effective Construction Techniques

Materials

Paper and pencil or pen

Skyward Grading

Score Method	Term Grades (MHS Policy)	Grading Scale (MHS Policy)
Total Points or Weighted Grades <<replace with weighted percentages>>	Fall Quarter 1=40% Quarter 2=40% End of Course Assessment=20% Spring Quarter 3=40% Quarter 4=40% End of Course Assessment=20%	A=90%-100% B=80%-89% C=70%-79% D=60%-69% F=Below 60%

Make-Up Work (MHS Policy)

Papers, assignments, tests, etc. that were announced while the student was in attendance prior to the absence are due to be submitted or completed on the day the student returns to school. A student will be allowed two (2) school days for each day of excused absence to make up material presented during the absence. Make-up time is not to exceed ten (10) days from the time a student returns to school after an absence. Additional time may be granted at the principal's discretion under extenuating circumstances. When a student has been absent for three (3) or more consecutive school days due to illness or excused absence the parent or student may call the Attendance Office to request make-up homework be sent to the office for pick-up. Please allow 24 hours for teachers to respond before coming to the office to pick up work. **In the case of pre-arranged absences, it is the responsibility of the student to contact individual teachers for any make-up work prior to the absence.**

Late Work

<<No late work accepted>>

Classroom Rules and Procedures

Class Rules

1. ***Come to class on time.*** Standing outside the door and rushing in after the bell has begun to ring will constitute a tardy. You must be INSIDE the door when it begins ringing to be counted on time. Students will be given detention after three tardies.
 2. ***Attend to personal needs before coming to class.*** I have been instructed not to give passes to lockers and to limit passes, so please do not ask for a pass unless you have a true emergency.
 3. ***Remain in your seat unless you have permission to get up .*** Clean up after yourself before you leave class
 4. ***Do not eat candy or other food including drinks in class unless you have been given special permission.***
 5. ***Bring required materials every day unless you are otherwise directed.***
 6. ***Talk only when permitted.*** Be aware of the situation since quiet talking is allowed in some situations and speaking to the entire group without raising your hand may be allowed in others. I will remind you once and expect compliance.
 7. ***Respect the schools property and others.*** Deliberately damaging school property or disrespecting others will not be tolerated.
 8. ***Do not cheat.*** Students caught cheating will receive a zero and a phone call home. Both the student who shares his work for an independent assignment AND the person who copies it will suffer the same consequences. I expect you to do your own work and to be sure no one can copy it.
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Discipline

Refer to the student handbook and you may also be required to sweep the shop.

Academic Integrity (MHS Policy)

All work submitted by a student must represent his/her own ideas, concepts, and current understanding. All material found during research must be correctly documented/cited to avoid plagiarism. Any student caught cheating or plagiarizing on course assignments or exams will lose credit for that assignment or exam. The teacher will notify parents. Students may be subject to disciplinary action, including a parent conference.

Student & Parent Resources

School Website: <http://mhs.msd134.org/>

<<Replace this text with student/parent resources (e.g. Google Classroom, teacher website, etc.)>>

Other Information

<<Replace this text with other information>>