

Course description: Metals 1 is an introductory level course to a wide variety of metal working techniques. Through the use of tools, machines, and materials students will learn the importance of the metal working industry.

Student Expectations:

- Be on time and in class every day
- Participate in the designated daily activity
- Work the entire period on metals activities and behave in a manner which is conducive to a professional setting
- Remain in the assigned area until the bell rings and you are dismissed
- Make up all missed work (it is up to you to do this)
- No food or drink
- FOLLOW ALL SAFETY RULES AND INSTRUCTIONS
- Take care of out side business before entering the class(rest room, locker, office)

Assignments: Through out the semester there will be a number of in class assignments as well as homework. This is a project oriented class and lab work is a big part of your final grade.

Evaluation process:

- Written tests and quizzes
 - Written assignments and notes
 - In shop projects and assignments
 - Participation
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- Covered shoes are required every day, jeans or pants are suggested. There is locker space in the shop, it is a good idea to bring older clothes and shoes for in the shop classes.

It takes the work of students, parents, and teachers working together to ensure a suitable learning environment. Thank you for your support and feel free to contact me any time at 402-443-4332 ext. 3213 or at kweyers1@esu2.org

Student signature

Parent or guardian signature

Date

Course Content

Unit 1: Safety

- Safety notes
- Safety Test

Unit 2: Metal Classifications

- Notes
- Classification work sheet
- Quiz
- Test

Unit 3: Measurement

- Reading a ruler work sheet
- Quiz

Unit 4: Using Hand tools

- Notes

Unit 5: Shielded Metal Arc Welding

- Notes
- Parts I.D work sheet
- Terms work sheet
- Quiz

Unit 6: Metal Lathe

- Notes
- Parts I.D work sheet
- Terms work sheet
- Quiz

Unit 7: Forging

- Safety notes
- Student demonstration

Unit 8: Gas Welding

- Notes
- Parts I.D work sheet
- Terms work sheet
- Term/I.D quiz
- Safety Demo Quiz

Unit 9: Bead Types

- notes