



OCCUPATIONAL SURVEY SEMESTER SYLLABUS

Mr. Towery

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The course will: emphasize how to safely use woodworking, metalworking, hand, and power tools through demonstration and project construction. This course will also incorporate some drafting procedures.

The student will: learn about woodshop machinery and metal shop machinery with some welding, cutting, measurement, electrical, tool ID, and project planning applications. In regards to safety, all students will be required to pass a safety test on general shop safety and machinery. The student will also sign a safety contract which stresses the importance of proper conduct while in the wood and metal lab.

Requirements:

All students must complete the following requirements before beginning to make a project:

1. Pass all safety tests.
2. Turn in a student safety contract.
3. Demonstrate machinery knowledge before beginning a project.
4. Wear safety glasses and observe all safety procedures while in the shop area.

Grades:

Grades will be earned with the following:

90%-100%=A; 80%-89%=B; 70%-79%=C; 60%-69%=D; < 59%=F

Points will be available in the following categories:

Academic (tests, projects, demonstrations)	75%
Personal Management (safety, clean-up, notebooks, record keeping)	25%

Course Guidelines:

1. **Attend regularly and on time**
2. **Respect the rights of others, don't be distracting**
3. **If absent for any reason, the student is responsible for all make up work**
4. **Bring writing utensils and paper**
5. **Dress appropriately for shop work**
6. **Prepare to purchase safety glasses**

FFA:

Every student in an agricultural sciences course is able to be an FFA member. FFA is an intracurricular part of agricultural education, and provides numerous opportunities for applying classroom learning in the real-world. Every year Silverton FFA members travel the state and even the nation participating in leadership development, competing with applied career skills, and getting the experience that will make them successful after high school. In addition, FFA members are eligible for literally millions of dollars yearly in scholarships, including several thousand dollars awarded by our local FFA Alumni. Participation in FFA activities is worth up to 10% of extra credit per semester. Dues of \$25/year can be paid in the bookkeeper’s office.

Student Expectations:

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|-----------------|--------------------|
| Be Safe! | Be Ready to Learn! |
| Be Respectful! | Work Together! |
| Be Responsible! | Seek Excellence! |

Student Name: _____ **Course:** Occupational Survey

Assignment 1: Student and Parent Signatures

I have read and understand the expectations and requirements for being part of this course and will follow them in order to successfully complete this class.

Student Signature	Parent Signature	Date
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Communication:

Email makes it very easy to communicate between teachers and parents. If you have an email address please put it down below. This email will be shared with no other group or person and will only be used to provide information about upcoming activities or opportunities in the CTE program. If there is a need for more urgent contact you will be called.

Parent Email Address:

Course Outline

Weeks	Topics
<i>Weeks 1-2</i>	Safety <ul style="list-style-type: none"> • General shop • GMAW • SMAW • OAW welding/cutting • Equipment
Quiz over safety. Students must pass with 85% accuracy.	
<i>Weeks 3-6</i>	Discuss the SMAW /GMAW/OAW process/procedure <ul style="list-style-type: none"> • Machine set-up • Amperage information • Striking an arc • Bead characteristics
Weld demo will be given at the end of week 6. Student demo will cover SMAW/GMAW/OAW cutting process in which students will demonstrate with E7014/E6013 electrode flat position lap and cutting exercise using $\frac{1}{4}$ " flat strap metal.	
<i>Weeks 7-10</i>	Discuss metal projects using the following skills <ul style="list-style-type: none"> • Machine/equipment set-up • Tape & die • Tool ID • Measurements fractions/decimals • Cutting metal • Bending metal • Reading blue prints • Drilling and knurling • Sharpening and filing tools
Cold metal project due at the end of week 10. (Hacksaw project or hitch pin)	
<i>Weeks 11-14</i>	Discuss the drafting/CAD drawing wood project (wheelbarrow) <ul style="list-style-type: none"> • Students draft wheelbarrow project • Students draw project using CAD • Students review safety wood shop equipment • Build wheelbarrow project using CAD drawing and step by step plans •
Wood project and drawings due at the end of week 14.	

<i>Weeks 15-16</i>	Discuss electricity single pole switches <ul style="list-style-type: none">• Discuss tools being used• Discuss wire size and color• Discuss neutral, ground and current carrying wire• Wire a single pole switch diagram• Discuss three-way switches and how they work
Electricity diagram completed at the end of week 16.	
<i>Week 17-18</i>	Discuss the process of a small engine <ul style="list-style-type: none">• Identify parts and tools of small engines• Learn the 4 strokes of a small engine• Discuss trouble shooting a small engine• Discuss maintenance on small engines
Test will be given at the end of week 18 covering small engine unit.	