

Name of School:

Name of Course: **Advanced Metals Materials
& Processes**

Instructor Information

Name:
E-mail address:
School phone number:
Web page address:
Best times to be reached:

Course Description

The student will gain skills by building personal projects utilizing the skills acquired from the basic course. The occupations associated with the various areas and their requirements for entrance will be studied, as well as the technologies of the modern metalworking industries. Materials fee required.

District Standards and Power Benchmarks

Power Standards

1. Students will develop an understanding of the nature of metalworking technology.
2. Students will develop an understanding of metalworking technology and society.
3. Students will develop an understanding of metalworking design.
4. Students will develop abilities for a technological world in Metals, Materials, and Processes.
5. Students will develop an understanding of the designed world of Metals, Materials, and Processes.

Power Benchmarks

1. Recognize Metalworking History and Research Technique
2. Investigate the make-up of Metals
3. Apply Shop Mathematics / Precision Measurement
4. Recognize Quality Control and Inspection Tasks
5. Demonstrate Advanced Metalworking Skills / Techniques
6. Develop Daily Work Habits
7. Develop Problem-Solving Skills related to Materials and Processes.
8. Demonstrate Prevocational Skills
9. Analyze Integrated Manufacturing
10. Identify Metalworking Careers and Career Planning Strategies

Course Information

One term course, 0.5 credit, offered to 9-12 students, Prerequisite: Metals, Materials, & Processes

Course Outline/Calendar

Safety tests, lab projects, bookwork-notebook will be needed

Text/Other Required Materials/Resources

Instructional Procedures & Support

Classroom Management Procedures

Assessment Plan

Grades will be given for: daily performance, written quizzes, tests, projects and notebook.

Grading System

A	93 and above	Firm command of knowledge domain
A⁻	90 - 92	High level of skill development Exceptional preparation for later learning
B⁺	87 - 89	Command of knowledge beyond the basic concepts of knowledge
B	83 - 86	Advanced development of most skills Has prerequisites for later learning
B⁻	80 - 82	
C⁺	77 - 79	Command of the basic concepts of knowledge
C	73 - 76	Demonstrates ability to use basic skills Lacks a few prerequisites for later learning
C⁻	70 - 72	
I		The letter "I" indicates the student has not satisfactorily achieved the grade/course-level benchmarks and/or has missing work. "I" status is temporary and not a final grade. The letter "I" may affect athletic eligibility.
D⁺	67 - 69	Lacks knowledge of some fundamental ideas
D	63 - 66	Some important skills not attained
D⁻	60 - 62	Deficient in many of the prerequisites for later learning
F	59 and below	Most of the basic concepts and principles not learned Most essential skills have not been demonstrated Lacks most prerequisites needed for later learning