

REEDLEY COLLEGE

I.T. DIVISION

MFG. 33A WELDING FABRICATION - MIG, TIG, INNERSHIELD

M-W 8:00 AM - 12:50 PM

INSTRUCTOR: Mr. Studebaker
Office: Industrial Technology Bldg.-Welding, Room 23
Phone: 638-3641, ext. 3253

DESCRIPTION: Welding Fabrication 5 units, 10 hours weekly

1. Students will design and fabricate a welding project.
2. Students will learn how to use both jigs and fixtures in the fabrication project.
3. Students will apply the skills of Mig, Tig, FCAW, SMAW welding, oxy-acetylene cutting, and blueprint reading.
4. Students will fill out Bill of Materials list for a fabricated welding project.
5. Students will estimate both materials and lab cost for fabricated welding jobs.
6. Students will learn the safety procedures as needed to work in both school and industrial shops.

EXPECTED OUTCOMES:

1. Students will have gained the experience of fabricating a welding project.
2. Students will have experience in general welding shop maintenance and repair.
3. Students will be able to estimate the cost of a fabricated welding job.
4. Students will know the correct safety procedures for working in both school and industrial shops.

REQUIRED BACKGROUND:

MFG. 32A Basic Welding,
MFG. 32B Welding Fabrication, Mig/Tig, Innershield

MINIMUM STUDENT MATERIALS: (Student Purchased)

1. Textbooks - GTAW, GMAW, FCAW - Minnick
2. GTAW, GMAW, FCAW Handbooks - Studebaker
3. Safety Booklet
4. Notebook - 3 ring and pencil
5. Highlight felt pen
6. Safety glasses
7. Ear plugs
8. Gloves, helmet, goggles
9. Shop Coveralls
10. Tape measure - 16' or 20'

Approximate cost

N.C.
N.C.
N.C.
N.C.

TOTAL

HOW CLASS WILL BE CONDUCTED:

1. Group lectures, tours, demonstrations
2. Individual instruction
3. Shop work
4. Workbook, quizzes, exams
5. Safety program

ATTENDANCE:

Roll will be taken through the use of a time clock. Each student is expected to punch in at the beginning of each class, and out at the end of each period.

Any student missing more than 3 days per each 9 weeks of the class, without prior permission, will be counseled by the instructor and if the student misses an additional day, he or she will be dropped from the class.

You are required to find out from the instructor any material missed during absence. Tests may be made up at the instructor's discretion.

Do not leave the classroom or shop area without the instructor's permission.

GENERAL POLICIES:

You are responsible to bring required materials to class. Textbooks and notebooks will be required.

Lockers will be provided for storage of projects and required materials. Students will provide locks.

Supplies will be provided by the school for required projects. Projects to be removed from shop will require all material bills to be paid.

School policy prohibits smoking, dipping snuff, eating, and drinking in the classroom and in the lab.

Any conduct that disrupts or distracts the class or is dangerous will not be tolerated.

Willful violations of any safety rule that endangers the health of yourself or others in the class or shop will result in immediate dismissal from the class.

GRADING:

1. Fabrication project	14%
2. Progress chart	8%
3. Student Handbooks	25%
4. Quizzes and exams	12%
5. Classroom & lab participation, attendance & clean up	41%
	<u>100%</u>

* DROP DATE:

LAST DAY TO DROP THIS CLASS WITHOUT PENALTY WILL BE
THE FRIDAY OF THE 9TH WEEK: FRIDAY, OCTOBER 16, 1998.

MFG. 33A SEMESTER REQUIREMENT FOR LAB AND LECTURE

<u>Classroom/Text Assignments</u>	<u>Points</u>
<u>GMAW</u>	
Chapters 1,2	106
Chapters 3,4,5	192
Chapters 8,9,10	164
<u>FCAW</u>	
Chapters 1,2	117
Chapters 3,4,5	147
Chapter 7	52
<u>GTAW</u>	
Chapters 1,2	152
Chapters 3,5	315
Quizzes-Mig 50 pts., Tig 50 pts., FCAW 50 pts., Gases 50 pts., Metals 50 pts., Bill of Materials 100 pts., Safety 100 pts.	450
Final Exam	150
	(TOTAL 1,845)
<u>Welds from Progress Chart:</u>	
Inner shield # 110-114	100
Mig Alum. # 115-118	100
Mig # 81-88	100
Tig # 89-109	100
Fabrication Project	725
	(TOTAL 1,125)
<u>Classroom & Lab Participation</u>	
Follow instructions and works with other students	550
<u>Attendance</u>	
Attendance	300
Deduct 25 pts. for each absence	
Deduct 25 pts. for each tardy	
Time clock usage - 40 pts @ 16 weeks	640
Weekly clean-up - 20 pts @ 16 weeks	320
End of semester clean-up	225
	(TOTAL 2,035) _____
	GRAND TOTAL 5,005

Listed above are the total number of all possible points that can be earned. The following percentages are needed to earn the respective grades:

4500 to 5000 - 90% = A
 4000 to 4499 - 80% = B
 3500 to 3999 - 70% = C
 3000 to 3499 - 60% = D

*Extra points may be earned during the semester by attending field trips, doing a tech. report, or shop maintenance, outside of scheduled class or lab time. Maximum of 10% of the Grand Total Points (500 points) can be earned.