



Reynolds High School



Metals Manufacturing 2

Instructor Name- Daniel Hellwarth

Phone with ext. - 503-667-3186 X 1100

Room Number- 125 & 126

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Required Textbooks/Materials: None

Metals Manufacturing 2 uses and expands upon the skills developed in Metals 1 through more complex set ups, operations, and sustained projects. It is expected that students in Metals 2 will begin considering their area of specialty, as a portfolio will be generated throughout the year.

Course Requirements –

-Passing grade and firm understanding of concepts covered in Metals 1

Grading Policy Description –

Letter Grade Description & Percentage Breakdown

(The following is our current language in the course catalog)

Grade Percentage	Letter Grade	Description
100% - 90%	A	The student fully understands the content and the course objectives have been mastered.
89% - 80%	B	The student understands the content and course objectives at an above average level.
79% - 70%	C	The student understands the course content and course objectives at an average level.
69% - 60%	D	The student understands the course content at a below average level and a minimum of course objectives are met.
59% - 0%	F	The student has not met a sufficient number of course objectives to pass a minimum level and receives no credit.

Late Work/Retake Policy – As the vast majority of major assignments in this course make use of our facilities, it is critical that students use their time in the shop effectively on a regular basis. Time after school is regularly available for students to catch up, if necessary.

-Mastery assignments can be completed at any time after their due date for 25% reduced credit.

-Classwork assignments can be completed at any time after their due date for 50% reduced credit.

Course Schedule/Outline of Units

Dates	Topics
September	-Indication on lathes & mills -Metrology & precision inspection -"friction fit" lathe project
October	-trammig mills -Intro to TIG welding (DC / carbon steel)
November	-Begin machininst hammer project -advanced lathe set up -advanced mill set up
December	-Metalurgy continued -Forging project -Machinist hammer heat treat
January	-Intro to foundry -Foundry intro project
February	-Intro to designed objects
March	-Designed intervention group project
April	-Professional portfolios
May	-TBD
June	-TBD

Class Expectations (classroom rules, procedures, POWER, etc.)

-Students will be trained to carry themselves safely and professionally in a manufacturing environment. Continued failure to do so will result in severely limited access to the shop, and may compromise receiving credit for the course.

Student Signature_____

Date_____

Parent Signature_____

Date_____