



# Reynolds High School



## Metals Manufacturing 2

Instructor Name- Daniel Hellwarth

Phone with ext. -

Room Number- 125 & 126

Email Address- Dhellwarth@rsd7.net0

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%	<b>A</b>	The student fully understands the content and the course objectives have been mastered.
89% - 80%	<b>B</b>	The student understands the content and course objectives at an above average level.
79% - 70%	<b>C</b>	The student understands the course content and course objectives at an average level.
69% - 60%	<b>D</b>	The student understands the course content at a below average level and a minimum of course objectives are met.
59% - 0%	<b>F</b>	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**

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