**Metal Fabrication 110 course outline – 2018 Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Mr. D. Mundle Fall 2018**
A basic welding and metal fabrication course which stresses theory and applications used in welding methods including arc welding, oxyacetylene welding, brazing, cutting, and soldering. This course also includes practice in advanced arc welding techniques in all positions. MIG, plasma arc, and flame cutting equipment are all used. Emphasis is placed on introducing the student to the welding industry including using various hand tools and power tools. Instruction is also given on sheet metal layout and construction.

Course Outline

Each of the following will be introduced in theory and then practiced in the shop.

* Shop Safety
* Welding history
* Characteristics of metal
* Oxy-Acetylene welding
* Arc Welding
* Mig Welding
* Plasma Cutting
* Oxy Acetylene Cutting
* Spot Welding
* Measurement and design using metal.

Evaluations

* Shop Safety 20%
* Theory and questions 20%
* Tests and Quizzes 20%
* Shop practice and project work 40%

Proper footwear and Eyewear are necessary at all times.

Protective clothing necessary during shop practice.

It is the student’s responsibility to obtain proper footwear (safety shoes or boots) and protective clothing such as coveralls or a shop coat. Eyewear, aprons and welding gloves will be made available.