**Metals Fabrication 110 course outline Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Mr. D. Mundle Spring 2020**
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.

**Absenteeism and marks**

A legitimate absence is for school related activities, illness or bereavement.

**Group marks**

Group marks will be earned based on your days present and working with your team.  For example, if a project takes ten class days to complete and the group receives a mark of 80%; but you were only there for 5 days you would receive a 40%.  Even if you have a legitimate reason for being absent the expectation is that you will make up for the time you missed by contributing to the group from home or working during study block when you are able.  Alternatively, if you know you are going to be absent you may choose to work alone if the teacher gives you that option.

**In-class project marks/eco-points/shop/co-op marks**

You will be marked based on the number of days that you are present and participating in class.  If, for example, you earn a shop mark of 70% and you were there 90% of the time your mark would be 63%.

**Late assignment policy:**

* To get full marks, assignments need to be handed in by the assigned due date.
* For every date late, after the assignment due date, 10% will be deducted from the mark (up to a maximum of 40%).  Weekends count as one day.
* If a student is absent on a due date, a written legitimate excuse from a parent or guardian must be presented upon the student’s return, or the late-day deductions will apply.
* A student’s mark cannot be lower than 60% given that the student deserves a passing grade on the assignment to begin with.  Any work getting a mark of less than 60% will receive that grade.
* In order to be graded, all work must be handed in **no later than one week**after the given due date of the assignment.  Term marks are final.

**BLMS Attendance Incentive –**

Exams are normally worth 30% of students’ mark. To reach Academic Incentive, a student must meet the following criteria:

1. Miss 5 or fewer classes in that particular subject (only school related activities and bereavement are exempted excuses); AND
2. Be in good standing (not owing for assignments, projects, etc.)

The subject teacher will then apply one of the three following options to the student’s advantage:

1. 15% Final Exam, 85% Class Mark
2. 50% Final Exam, 50% Class Mark