



NAME: \_\_\_\_\_

BLK: \_\_\_\_\_

**Course Outline**  
**INDUSTRIAL TECH 9/10** 12-13

**I. COURSE DESCRIPTION**

This course is an introduction to the tools, materials and machine operations of the Technology facility. A major focus of Technology Education is the problem solving process of design and **safe** fabrication. Projects and assignments will be completed that provide a basic foundation in these six main areas:

- Design
- AutoCad & SolidWorks
- Simple Mechanics
- Basic Engineering
- Electronics / Robotics
- Metalwork

**II. COURSE GOALS**

Upon completion of this course, students will be able to:

- State the nature and importance of design
- State the steps of the formal design process used for solving technological problems
- Identify and apply the six simple machines to a complex machine
- Perform basic fabrication operations **SAFELY** with wood, metal, and plastics
- Name the basic parts of an electronic circuit
- Assemble & solder a simple electronic circuit
- Produce a CAD drawings for your project.
- Design and fabricate a Sumo Robot or MouseBot.

**III. SUPPLIES REQUIRED**

- Bring the **course binder with paper**, and a **pencil** to class,
- Bring a **ruler** with both **metric** and **imperial** increments
- Bring your **SHSS planner** to class.

**IV. BEHAVIOUR AND SAFE SHOP PROCEDURES**

1. Bring your supplies to every class, as well as any projects under construction that have been stored in your locker for safekeeping. Items left in the class are at your own risk.

2. Do not leave your work area (designated shop) **without permission.**

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*initials –parent & student*

3. Please Do Not Talk when I am teaching.

4. Disruptive, rude and inconsiderate behavior will not be tolerated. You are expected to have respect for each other, the technology facility, and myself. In extreme cases, such as willful vandalism to the facility or another’s project, or repeated unsafe behaviour, students may be withdrawn from the course.

5. **ASK FOR PERMISSION TO USE THE MACHINERY**

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*initials –parent & student*



6. Powered equipment may only be used when a **supervisor is present** in the shop facility.

*initials –parent & student*

7. Only use machinery or equipment that you have observed a **SAFETY demonstration** for and for which you have received a **80% or better** mark

*initials –parent & student*

It is very important that the parent / guardian ensure that the student understands these very important requirements.

**V. EVALUATION**

Projects and Assignments .....	60%
Tests and Quizzes .....	20%
Note book.....	10%
Attitude, Co-operation, Attendance, Cleanup.....	10%
<b>TOTAL.....</b>	<b>100%</b>

**VI. NOTEBOOK**

Tests and quizzes will be based on the notes you have taken in class. It is essential that you keep your notebook neat and organized. If you miss a day of notes, it is your responsibility to get the notes from another member of the class. All handouts you receive must be hole-punched and inserted correctly into your binder. 10% of your grade for the course will be based on how neat and complete your notebook is.



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**VI. PROJECT COST**

Every student will be able to meet the course objectives at no cost to the student.

Should the student wish to keep their project there will be a charge of \$15.00 for the motor & gearbox. Any additional parts the student wishes to use in their project will be at their own cost.

This decision should be made in the first week of the semester.

**Yes** my son/daughter will keep their project.

\_\_\_\_\_  
*Parent Signature*

**No** my son/daughter **will not** keep their project.

\_\_\_\_\_  
*Parent Signature*