

## COURSE MANAGEMENT PLAN

### ELECTRONICS SHOP GRADE 9

**Teacher: Mr. Guy Nyzio room Number: 114**

#### **COURSE BENEFITS:**

- This is the first year (Grade 9) of a four year course taught on the principles and fundamental theories of Basic Electricity and Electronics.
- Each student, upon successful completion of the one semester (half year) Freshman curriculum, should have a thorough understanding of the nature and sources of electricity, the components of a basic electrical circuit, Ohm's Law, DC circuit analysis for series, parallel and combination circuits, the use of basic diagrams and schematics, Watt's Law, common circuit devices, and the manipulation of a hand held digital multi-meter for circuit measurements of voltage, current and resistance.

#### **COURSE OUTLINE:**

- **FEBRUARY** – Soldering & de-soldering skills. Mechanical assembly and disassembly. Basic Ohms law and electron theory. Component identification & function. Power supply use. Batteries.
- **MARCH** – Basic use of Digital Multimeter. Resistor color code. Schematic diagram reading and drawing. Protoboard use.
- **APRIL** – Series and parallel resistive circuits. Combination series/parallel circuits. Voltage dividers. Switches and fuses.
- **MAY** – Magnetism basics. Magnetic components. Relays and DC motors.
- **JUNE** – Analog multi-meter theory and construction. Capacitors.

#### **REQUIRED DAILY STUDENT MATERIALS:**

- Tool box
- Safety glasses
- Pen or pencil
- Scientific Calculator (NOT an expensive one; basic is fine...about \$10.-15.00)
- Notebook (NOT to be shared with any other class or shop)
- Agenda book

**GRADING POLICY:**

Daily Grade (on time/on task/in seat/working quietly/cooperating with others).....	40%
Weekly class assignments/ projects.....	20%
Projects.....	20%
Test/Quiz Average.....	10%
Final exam.....	10%

**SHOP PARTICIPATION:**

- Attendance – in class *on time* and present for the entire class.
- Tardiness: after three class tardies, detentions will be given.
- Absolutely no horseplay or unsafe behavior
- Effort is required (attentive, respectful, stay on task; DO NOT distract others).

**PERMISSION TO LEAVE SHOP:**

- Notify me if you need to use the bathroom. I have the bathroom door key.
- Leaving the shop for any other reason requires your agenda book signed by me.
- Permission to leave to get books or supplies may be refused; come prepared.
- Leaving class without permission or prior to the bell will result in a detention.

**SHOP EXPECTATIONS:**

- Follow the rules set in the student handbook: NO hats, NO food/drinks, NO radios/music players, etc.
- Horseplay will not be tolerated.
- DESTRUCTIVE BEHAVIOR will not be tolerated. This includes rough handling/destruction of either shop equipment or other student’s property.
- Personal property is OFF LIMITS to others.
- RESPECT AND MANNERS. If I am speaking to anyone, do not interrupt!
- STAY BUSY. There will be many times when your shop assignments are complete and you will have spare time. This is not a time to play, sleep or horse around. It is your responsibility to find productive activities in the shop to stay engaged. I have a separate list of ideas that I will hand out to everyone. Be imaginative and creative.
- Shop Cleanup. At the end of the school day each student is expected to clean up his/her workspace and the surrounding area. This includes putting away tools & equipment, throwing away trash on your bench, and vacuuming your area.

*Failure to follow any rules in this course management plan or the student handbook will result in a reduction of the appropriate grade area and/or disciplinary action appropriate to the rule violated.*

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Please sign and return this form acknowledging that you have read and understand the above information in regard to the Electronics Related course management plan. If you have any questions or concerns please contact me at the school.

Thank you for your anticipated cooperation.

Teacher:

Student signature and date \_\_\_\_\_

Parent/Legal Guardian signature and date \_\_\_\_\_