

## AC Electronics

**Equipment needed for the course:**

Pencil

Paper

Graph paper

3 ring binder (May share with other classes)

\$20.00 project cost. This is used to purchase take home solder projects.

**BEING ON TIME IS VERY IMPORTANT TO BE READY TO START CLASS AT THE BEGINNING AND WE CAN END ON TIME****Grade requirements:**Turn in all work on time (**Late work will lose a letter grade each day**)

All make up work due to illness will need to be done within 3 days of return

**You will have 10 school days** to make up any work that is missed!!!**Notebook assessment** will be done 3-4 times per 9 weeks.**Major Assessments (Test/Projects)**

60% of 9-week grade

**Minor Assignments (Classwork, Quizzes, & Participation)**

40% of 9-week grade

**REQUIRED FINAL EXAM COUNTS 25% OF OVERALL GRADE****Rules**

1. Must be tolerant and respectful of yourself, each other, and your teacher.
2. Your actions must not inhibit the ability of others to learn.
3. No one is to be out of the classroom without my knowledge **and** consent.

**Honors**

This is an Honors course; great care has been given to create a course that will challenge the mind. The information that follows is an outline of our standard course with honors elements added to blend with a higher level of rigor and intensity. Along with a more intense rigor comes great reward and increased readiness for ETA certification and Post-Secondary. The amount of effort you as a student put into AC Electronics will produce a huge return.

### Expectations-

- a. No open drinks in the classroom.
- b. No food - If a student brings food to my class he/she will not be allowed beyond the trash can at the entrance until the food is gone and he/she will be counted tardy if they are in the hallway when the bell rings.
- c. Absolutely **NO** drink or food on any computer table
- d. Book bags are to be put under their table upon entering the class
- e. Notebooks are to be ready, pencil and paper in hand for bell ringers and notes.
- f. All class books are to be returned at the end of class
- g. All trash and scrap are to be picked up at the end of each class.
- h. One person at a time talks in this class. Me or you! Never both at the same time.
- i. Personal electronic devices (Phones, Tablets & Smart Watches) will not be used during class per county and RHS policy.

Absentees and Tardies - It is my objective to teach each student individually or by groups the basic function and operation of all things electronic. Class participation is extremely important and absentees or tardies can cause lower grades if the work or notes are not made up. It is the responsibility of each student to make sure this will happen; therefore I recommend that you get one or two study partners that you can trust to take notes in the event you are absent.

### **Certification**

Each student has the opportunity (**Free** to RHS Students) to receive an industry recognized certification toward the end of this semester. Each student will take the certification exam as part of this class. The certification is ETA EM-2.

**Achieving this certification will allow the student to be exempt from the final exam.**

#### **AC BASICS (EM2) 100%**

**1.00 Understand Principles of Alternating Current including components and terms. 12%**

**2.00 Apply Principles of Inductance. 20%**

**3.00 Apply Principles of Capacitance. 12%**

**4.00 Understand AC Generator and Motor Theory. 16%**

**5.00 Apply RC, RL and RCL Principles and general Mathematics and Formulas used in AC. 24%**

**6.00 Understand Cabling, Test Equipment & Measurements, and Basic Electrical Safety Precautions. 16%**

The Randolph County School System Career and Technical Education programs do not discriminate on the basis of race, color, national or ethnic origin, gender, age, or disability in its programs or activities. For inquiries contact Marty Trotter, Title IX Coordinator, or Rick Dawes, Section 504 Coordinator, 2222-C South Fayetteville St. Asheboro, NC 27205 Phone: 318-6100/Fax: 318-6155.