

# Electronics Course Syllabus

Instructor: Mr. Kratochvill School: Andover High School

## Introduction

Industrial Technology Education prepares today's youth for the technological society in which we live. The study of technology provides important concepts and skills that will help the students become lifelong learners. Technological concepts and skills are explored by the students through the processes and systems of: research, observation, application, and testing. The students investigate concepts and principles of technology with the direct integration of mathematics, reading, writing, and ethics. Management skills, teamwork, and cooperation in conjunction with career exploration are essential components to the successful completion of the course.

## Course Description

The electronics course is designed to provide an opportunity to develop a basic background or career related skill in electricity or electronics. The students will explore the use of test instruments to verify and analyze electronic circuits. Students will learn how electronic circuits are designed and used in home, work, and leisure activities. Students will also apply concepts through projects and activities in conjunction with designing and testing various electronic circuits.

### ***Specifically, a student shall demonstrate an understanding of Basic:***

1. Electrical Theory.
2. Electrical Sources.
3. Electrical Measuring Instruments.
4. Electrical Tools.
5. Electrical Materials.
6. Electrical Circuits.
7. Electrical Applications and Testing.

### ***A student shall demonstrate the ability to:***

8. Adjust and use electrical measuring instruments.
9. Identify and properly use electrical tools.
10. Identify and accurately install electrical components.

Materials Students will need:

- 2 mechanical pencils with erasers
- folder
- paper

## Evaluation

Students will be evaluated on: the successful completion of assignments, participation, quizzes, and testing. Points are given for all activities.

- a. 25% Quizzes, test and final exam.
- b. 50% Assignments and laboratory activities.
- c. 25% Attendance, clean up, cooperation and attitude.
- d. Extra Credit determined by instructor (Extra electronics Labs)

A= 100-90%

B= 89-80%

C= 79-70%

D= 69-60%

F= 59% or below

Grading scale is parallel with percentages outlined in handbook and will be posted on a biweekly schedule. \* THE USE OF A CELL PHONE/UNAUTHORIZED ELECTRONIC DEVICE DURING A PERIOD WHERE AN ASSESSMENT IS GIVEN (TEST/QUIZ ETC.) WILL BE CONSIDERED CHEATING REGARDLESS OF THE INTENTION, RESULTING IN A ZERO FOR THE ASSESSMENT AND REFERRAL TO THE OFFICE FOR POSSIBLE DISCIPLINARY ACTION.