



# Mulvane High School Residential Electricity and Security Systems

**Instructor: Mr. Dieker**

**Course Description:**

Residential Electricity is designed to provide an opportunity for the student to develop skills and an understanding of the basic skills and techniques used in residential and security wiring.

**Text:**

Harvey N. Holzman (2005). Modern Residential Wiring. Goodheart-Willcox Co.,  
Tinley Park, Illinois

**Course Objectives:**

Residential Electricity is designed to allow the student an opportunity to learn the different aspects of electrical work through hands on laboratory work. Written assignments will be completed weekly which will explore different aspects of the electrical and security field.

As a basic electricity class it has as its objective the following:

1. To provide an introduction to the area of electricity and security systems.
2. To provide an opportunity for the development of skills, a degree of “know how” and an understanding of electrical and security systems.
3. To provide information that will aid in the selection and application of various materials and tools used in the electrical and security industry.
4. To ensure the student understands and practices safe work habits.

**Course Content:** - Through the use of class discussions, laboratory activities and testing, instructional information of the following topics will be presented.

1. Safety practices of an electrician.
2. Fundamentals.
3. Installation.
4. Planning.
5. Specialized Installations.
6. Electricians.
7. Symbols.

**Activities:** - To accomplish the course objectives, the student will be required to read and wire different electrical circuits. Along with this lab work, text assignments and study questions will be completed regularly.

**Evaluation:** - Evaluations will be made from the following.

1. **Quizzes** – Quizzes will be given each week covering the information given during the week and the questions completed during the week. Quizzes will generally be 10 short answer questions. Tests will be given every two weeks over material covered during those weeks.
2. **Mid-term Exam** – The mid term exam will be given during the eighth week of classes.
3. **Final Exam** – The final exam will be a practical exam with a comprehensive written test that each student will need to complete. Each student will have to wire several circuits that are randomly selected before the final.
4. **Attendance** – Each class period is worth ten points, for each class period that is missed 10 points will be deducted. For each tardy three points will be deducted. The only exception will be for those involved with school activities. Points will also be deducted for those who choose not to participate in class. For those who choose to not follow classroom rules and procedures, points will be deducted accordingly.
5. **Assignments** – Assignments will be given daily. Assignments will not be accepted after the due date.

**Grading Scale:**

100-90% = A  
89-80% = B  
79-70% = C  
69-60% = D  
59 and below = F

**Student Signature:** \_\_\_\_\_

**Parent/Guardian Signature:** \_\_\_\_\_