**Mohawk Valley Community College**

**Utica & Rome, New York**

**ET116: Basic Electricity 2 Cr-3**

**Catalog Description:** This web based course is designed to provide the student with continued knowledge of electrical theory. The course includes a study of codes, electric motor theory, motor applications, and advanced AC electrical theory. This course does not satisfy the requirements of any courses in the Electrical Service Technician programs.

**Prerequisites:**  None

**Student Learning Outcomes:** The student will:

1. Develop the essentials of theoretical AC electricity.
2. Develop an understanding of advanced measuring instruments and their uses.
3. Be able to identify specific mathematical concepts that are reinforced in emphasizing practical application and the use of the electronic calculator.
4. The student will be introduced to the preliminary skills in documenting technical information and in the writing analysis of experimental results.
5. Advanced design studies in the alternating current .
6. Solve technical circuit calculations.

**Major Topics:** AC theory, AC Circuits, AC & DC Motors and theory.