

COURSE TITLE: **ELPT 1419** **FUNDAMENTALS OF ELECTRICITY**

INSTRUCTOR: Paul Harbin
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OFFICE HOURS: As given

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GENERAL COURSE INFORMATION:

Course Description: This course gives an overview of the theory and practice of electrical circuits, including calculations as applied to alternating and direct currents.

Course Learning Outcomes: The goals/objectives of this course are:

The student will explain atomic structure and basic electrical values such as voltage, current, resistance and power. Calculate electrical values for combination circuits in alternating and direct current containing resistance, inductance, and capacitance. Calculate voltage drop based on conductor length, type of material, and size. Summarize the principles of magnetism.

Academic Integrity: The attempt of any student to present as his or her own work which he or she has not honestly performed is regarded by the faculty and administration as a most serious offense and renders the offender liable to serious consequences, possibly suspension. If you have a question as to whether you may work with other students on any assignment, ASK YOUR INSTRUCTOR.

Assignment Policy: All required work must be turned in on time in order that the student may benefit from the corrections and study for future examinations. Assigned outside work is DUE ON THE CLASS PERIOD ASSIGNED. The instructor has sole discretion as to whether late work is acceptable.

Attendance Policy: **Students are expected to attend all classes in order to be successful in a course.** The student may be administratively withdrawn from the course when absences become excessive as defined in the course syllabus. **Students with four (4) or more absences MUST contact their instructor.** When an unavoidable reason for class absence arises, such as illness, an official trip authorized by the college or an official activity, the instructor may permit the student to make up work missed. It is the student's responsibility to complete work missed within a reasonable period of time as determined by the instructor. **Students with illness related or other absences must communicate with the instructor for those absences to be excused.**

SPECIFIC COURSE/INSTRUCTOR REQUIREMENTS:

Ugly's Electrical Reference by George V. Hart
ISBN: 0-9623229-7-0

Optional Textbook and Other Materials: Delmar's Standard Textbook of Electricity by Stephen L Herman, Delmar Press,
ISBN: 0-8273-8550-1

Calculator with scientific functions.

Grading Policy/Procedure: Grades will be determined by averaging scores from three categories.

- *Major Exams
- **Daily Attendance
- ***Final Examination

*Make-up tests may be administered at the discretion of the instructor; students are expected to be present and prepared for all announced examinations.

**Attendance is taken daily and accrues points per class attendance. A total of 100 points is possible.

*** Final Examination is required for all students.

Special Requirements: Safety Policy. Students should adhere to safety standards established in the SPC Student Handbook. Electrical energy can be potentially lethal. **Students will adhere to the safety policies set forth by the instructor to avoid any electrical contact.** Further, chemical hazards and appropriate MSDS safety practices will be covered by the instructor during the first class session if potential for exposure exists.

Statements: Statements can be found at this site which include:

Disabilities statement

Non-discrimination statement

CARE (Campus Assessment, Response, and Evaluation) statement

Intellectual exchange statement

Concealed carry statement

<https://www.southplainscollege.edu/syllabusstatements/>