

SOUTH PLAINS COLLEGE
COURSE SYLLABUS

Levelland Campus
Fall 2022

COURSE TITLE: **ELPT 2305** **MOTORS AND TRANSFORMERS**

INSTRUCTOR: Paul Harbin

OFFICE LOCATION LE 104

PHONE/E-MAIL: 806 716 2285 / pharbin@southplainscollege.edu

OFFICE HOURS: As posted

SOUTH PLAINS COLLEGE IMPROVES EACH STUDENT'S LIFE

Course Description: This course is the study of the principles and operation of single and three-phase motors and transformers. Topics included here are transformer banking, power factor correction, and protective devices.

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

The student will match the type of single-phase motor with its type of operation. Compare the operating characteristics of three types of three-phase motors. Explain the advantages of Wye and Delta connections in motor and transit applications. Size overcurrent, short circuit, and ground fault protection devices. Utilize nameplate information.

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are expected to attend all classes in order to be successful in a course.** The student may be administratively withdrawn from the course when absences become excessive as defined in the course syllabus.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:

Textbook and Other Materials: Electrical Transformers and Rotating Machines by Stephan L. Herman. Delmar Publishers
<http://www.coursesmart.com/IR/1837982/9781111039134>

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.

COVID-19 Requirements: Consistent with the latest CDC recommendations, we have revised our guidance for students, faculty, and staff who have a known exposure or have tested positive. If you are experiencing any of the following symptoms, please do not attend class and either seek medical attention or test for COVID-19.

Cough, shortness of breath, difficulty breathing

Fever or chills

Muscles or body aches

Vomiting or diarrhea

New loss of taste and smell

Please also notify DeEtte Edens, BSN, RN, Associate Director of Health & Wellness, at dedens@southplainscollege.edu or 806-716-2376. Proof of a positive test is required. A home test is sufficient but students must submit a photo of the positive result. The date of test must be written on the test result and an ID included in the photo. If tested elsewhere (clinic, pharmacy, etc.), please submit a copy of the doctor's note or email notification. Results may be emailed to DeEtte Edens, BSN, RN at dedens@southplainscollege.edu.

A student is clear to return to class without further assessment from DeEtte Edens, BSN, RN if they have completed the 5-day isolation period, symptoms have improved, and they are without fever for 24 hours without the use of fever-reducing medication.

Students must communicate with DeEtte Edens, BSN, RN prior to their return date if still symptomatic at the end of the 5-day isolation.

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.

Diversity Statement: In this class, the teacher will establish and support an environment that values and nurtures individual and group difference and encourages engagement and interaction. Understanding and respecting multiple experiences and perspectives will serve to challenge and stimulate all of us to learn about others, about the larger world and about ourselves. By promoting diversity and intellectual exchange, we will not only mirror society as it is, but also model society as it should and can be.

Disabilities Statement: Students with disabilities, including but not limited to physical, psychiatric, or learning disabilities, who wish to request accommodations in this class should notify the Disability Services Office early in the semester so that the appropriate arrangements may be made. In accordance with federal law, a student requesting accommodations must provide acceptable documentation of his/her disability to the Disability Services Office. For more information, call or visit the Disability Services Office at Levelland (Student Health & Wellness Office) 806-716-2577, Lubbock Centers (located at the Lubbock Downtown Center) 806-716-4675, or Plainview Center (Main Office) 806-716-4302 or 806-296-9611.

Non-Discrimination Statement: South Plains College does not discriminate on the basis of race, color, national origin, sex, disability or age in its programs and activities. The following person has been designated to handle inquiries regarding the non-discrimination policies: Vice President for Student Affairs, South Plains College, 1401 College Avenue, Box 5, Levelland, TX 79336. Phone number 806-716-2360.

Technology: Students in need of computers for SPC classwork may check out a laptop from the library on the Levelland campus. ELPT students may check these computers out and will be responsible for the care and return of these units.