

# ELPT 1357 — Industrial Wiring

## Frank Phillips College

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### General Course Information

Credit Hours: 3

### Prerequisite

Consult advisor.

### Course Description

Wiring methods used for industrial installations. Includes motor circuits, raceway and bus way installations, proper grounding techniques, and associated safety procedures. Labs and homework assignments must be completed in a timely manner.

### Instructor

Thomas Skaggs – Contact Information: Office is in Room 104 where the class meets, FPC phone extension is 136, Cell Phone – (806) 567-1184, email – [tskaggs@fpctx.edu](mailto:tskaggs@fpctx.edu). You must contact instructor directly or by having message delivered by Bailey Bivins at ext. 776 to leave a message if you cannot attend class. If you do not, your absence will be unexcused.

THECB Approval Number..... 46.0301

### Learning Outcomes

Upon successful completion of this course, students will be able to:

1. Interpret electrical blueprints/drawings.
2. Compute circuit sizes and overcurrent protection for the installation of branch circuits, feeders, and service entrance conductors.
3. Explain the proper installation of wiring devices according to electrical codes; demonstrate grounding methods.
4. Identify industrial wiring methods including conduit bending.
5. Demonstrate proper safety procedures.

### Methods of Evaluation

Category	Percentage
Mid-term Exam	25%
Lab Average	40%
Attendance	10%
Final Exam	25%
Total	100%
<b>Grading System</b>	
A	100-90%
B	80-89%
C	70-79%
D	60-69%
F	50-59%

**Please come to class on time.** Call beforehand if you must miss class. Each student is responsible for all material covered in assigned readings and in each class. If you miss a test, it must be made up before the next two classes meet. We have a “makeup day” designated to us on Thursdays to allow the students to do exams or labs they have missed. You, the student are responsible for setting up makeup work with the instructor. Two absences allowed before it counts against you.

### **Academic Honesty and Integrity**

Students attending Frank Phillips College are expected to maintain high standards of personal and scholarly conduct. Academic dishonesty including, but not limited to, cheating, collusion (working with anyone else to produce work for which you take credit without the professor’s permission), utilizing resources such as books and notes for a test without the professor’s permission, and plagiarism is considered a serious offense and may result in disciplinary actions including:

- A grade of 0 for the test or assignment
- A semester grade of F for the course
- Administrative withdrawal from the course
- Academic suspension
- Notation of the student’s transcript of “Academic Dishonesty.”

### **Class Attendance**

Regular attendance is necessary for satisfactory achievement. Therefore, it is the responsibility of the student to attend class in accordance with requirements of the course as established by the instructor.

Students will be excused from class without penalty when either representing the college in an approved activity or having an approved reason for not attending. Reasons for absences must be approved by the instructor of the course. These exceptions do not relieve the student of the responsibility of making up the missed work as designated by the instructor concerned.

**Students who enroll in one or more college-preparatory course(s) because of TSI deficiency will be administratively withdrawn from all classes if the course in which they are excessively absent is their only preparatory course.** For a student enrolled in more than one preparatory course, the student may be dropped from only the course affected by absences.

Any student who is absent from classes for the observance of a religious holy day shall be allowed to take an examination or complete an assignment scheduled for that day, provided that proper notification of the absence is given to the instructor of the course missed. The student should notify the instructor within the first fifteen (15) days of the semester that he or she intends to be absent on the specified holy day.

### **Cell Phones and Other Electronic Devices Procedure:**

Cell phones and electronic devices in the classroom create a distraction for both students and faculty. During class, please turn your cell phone off or make it silent. If you must take a call, please excuse yourself to the hall to answer your phone. Cell phones are also considered suspicious during test taking. Therefore, Frank Phillips College outlines the procedure for handling cell phone usage in a classroom as follows:

1. **First Offense:** the student will be warned verbally by the instructor to turn off the cell phone or electronic device or by appropriate administrative personnel at distance sites. The instructor will make a notation of the infraction.
2. **Second Offense:** the student will be asked to leave the class period for the day and will receive zeroes for any work done in class on that day; a student receiving instruction through remote connection at an off-campus site will be required to attend the class face to face in Borger from this class date forward.
3. **Third Offense:** the student will be administratively withdrawn from the class in which the infraction occurred and will receive no refund for the class.

Students should leave the college's main number with an appropriate contact in case of an emergency.

Borger: (806) 457-4200, ext. 0 or 886-5047 after hours

Perryton: (806) 648-1450

### **Grievance Policy**

If you have a dispute concerning your grade or policies in this class, it is your responsibility to FIRST contact the instructor, either by e-mail or in person, to discuss the matter. Should things remain unresolved after this initial contact, please follow the procedures described in the Academic Policies section of the Frank Phillips College Catalog. In the vast majority of cases, the matter can be resolved at the instructor/student level, and learning to communicate your concerns in a civilized manner is part of the college experience.

### **Important Information**

Frank Phillips College is a Microsoft Office Campus. You must submit your electronic assignments in Microsoft Office programs only. If you do not have Microsoft Office, you may use one of the computer lab sites on campus for your class work.

### **Scans/Or Core Competencies That Will Be Addressed in the Class**

**Resources:**

Allocates Time  
Allocates Money  
Allocates Material & Facility Resources

**Interpersonal:**

Participates as a Member of a Team  
Teaches Others  
Serves Clients/Customers  
Exercises Leadership  
Negotiates to Arrive at a Decision  
Works with Cultural Diversity

**Technology:**

Selects Technology  
Applies Technology  
Maintains & Troubleshoots Technology

**Basic Skills:**

Reading  
Writing  
Arithmetic  
Mathematics  
Listening & Speaking

**Information:**

Acquires & Evaluates Information  
Organizes & Maintains Information  
Uses Computers to Process Information

**Thinking Skills:**

Creative Thinking  
Decision Making  
Problem Solving  
Seeing Things in the Mind's Eye  
Knowing How to Learn  
Reasoning

**Systems:**

Understands Systems  
Monitors & Corrects Performance  
Improves & Designs Systems

**Personal Qualities:**

Responsibility  
Self-Esteem  
Sociability  
Self-Management  
Integrity/Honesty