



TENTATIVE – SUBJECT TO CHANGE

ELTR 1090 Commercial Wiring 2

COURSE SYLLABUS

Fall Semester 2022 (202312)

On Campus Course With 50% or Less of Instruction Online

COURSE INFORMATION

Credit Hours/Minutes: 3/3750

Campus/Class Location: Swainsboro Building 6 Lab 6102

Class Meets: **20% Online / 80% F2F** Wednesday 12:11PM-3:41PM

Course Reference Number (CRN): 20346

Preferred Method of Contact: Email

INSTRUCTOR CONTACT INFORMATION

Instructor Name: Tony Criswell

Email Address: [Tony Criswell \(tcriswell@southeasterntech.edu\)](mailto:tony.criswell@southeasterntech.edu)

Campus/Office Location:

Swainsboro: Building 6 Lab 6102

Vidalia: Main- Lab 429

Swainsboro Campus: Monday and Wednesday 3:00PM- 3:45PM

Vidalia Campus: Tuesday and Thursday 1:30PM- 3:45PM

Phone: 478-289-2235

Fax Number: 912-538-3156

Tutoring Hours: By Appt.

This course requires students to complete a portion of the required contact hours by attending classes on campus while completing the remaining portion online as shown on the Lesson Plan.

SOUTHEASTERN TECHNICAL COLLEGE’S (STC) CATALOG AND HANDBOOK

Students are responsible for all policies and procedures and all other information included in Southeastern Technical College’s [Catalog and Handbook \(https://catalog.southeasterntech.edu/\)](https://catalog.southeasterntech.edu/).

REQUIRED TEXT

- Modern Commercial Wiring 8th edition, Goodheart-Wilcox Publishers ISBN 978-1-63563-875-2

REQUIRED SUPPLIES & SOFTWARE

Hand tools and Safety Glasses.

Note: Although students can use their smart phones and tablets to access their online course(s), exams, discussions, assignments, and other graded activities should be performed on a personal computer. Neither Blackboard nor Georgia Virtual Technical Connection (GVTC) provide technical support for issues relating to the use of a smart phone or tablet so students are advised to not rely on these devices to take an online course.

Students should not share login credentials with others and should change passwords periodically to maintain security.

COURSE DESCRIPTION

Introduces commercial wiring practices and procedures

MAJOR COURSE COMPETENCIES

Topics include: Conduit installation and system design concepts

PREREQUISITE(S)

None

COURSE OUTLINE

1. Conduit Installation
2. System Design Concepts

GENERAL EDUCATION CORE COMPETENCIES

Southeastern Technical College has identified the following general education core competencies that graduates will attain:

1. The ability to utilize standard written English.
2. The ability to solve practical mathematical problems.
3. The ability to read, analyze, and interpret information.

STUDENT REQUIREMENTS

Class attendance is a very important aspect of a student's success in this course. Responsibility for class attendance rests with the student. Regular and punctual attendance at all scheduled classes is expected. Students are expected to complete all work required by the instructor. Unannounced quizzes/assignments may be given. Students that miss an unannounced quiz or assignment will receive a grade of 0. Students are expected to complete all work shown on the attached assignment sheet. Students are also expected to complete all tests and comprehensive problems on the dates specified on the attached calendar. Students are responsible for policies and procedures included in the *STC Catalog*. **Electrical program students must earn a minimum grade of C in all courses to graduate.**

COVID-19 MASK REQUIREMENT

Regardless of vaccination status, students are highly encouraged to wear masks or face coverings while in a classroom or lab at Southeastern Technical College. Masking may be implemented in some program areas (i.e. Health Sciences and Cosmetology) where students, faculty, and clients are in close proximity and social distancing cannot be maintained. This measure is being implemented to reduce COVID-19 related health risks for everyone engaged in the educational process. Masks or face coverings must be worn over the nose and mouth, in accordance with the Centers for Disease Control and Prevention (CDC).

COVID-19 SIGNS AND SYMPTOMS

We encourage individuals to monitor for the signs and symptoms of COVID-19 prior to coming on campus.

If you have experienced the symptoms listed below or have a body temperature 100.4°F or higher, we encourage you to self-quarantine at home and contact a primary care physician’s office, local urgent care facility, or health department for further direction. Please notify your instructor(s) by email and do not come on campus for any reason.

| COVID-19 Key Symptoms |
|--|
| Fever or felt feverish |
| Chills |
| Shortness of breath or difficulty breathing (not attributed to any other health condition) |
| Cough: new or worsening, not attributed to another health condition |
| Fatigue |
| Muscle or body aches |
| Headache |
| New loss of taste or smell |
| Sore throat (not attributed to any other health condition) |
| Congestion or runny nose (not attributed to any other health condition) |
| Nausea or vomiting |
| Diarrhea |
| In the past 14 days, if you: |
| Have had close contact with or are caring for an individual diagnosed with COVID-19 at home (not in healthcare setting), please do not come on campus and contact your instructor (s). |

COVID-19 SELF-REPORTING REQUIREMENT

Students, regardless of vaccination status, who test positive for COVID-19 or who have been exposed to a COVID-19 positive person, are required to self-report using <https://www.southeasterntech.edu/covid-19/>. Report all positive cases of COVID-19 to your instructor and [Stephannie Waters](mailto:swaters@southeasterntech.edu), Exposure Control Coordinator, swaters@southeasterntech.edu, 912-538-3195.

ON CAMPUS (CA) ATTENDANCE GUIDELINES

Class attendance is a very important aspect of a student's success. Being absent from class prevents students from receiving the full benefit of a course and also interrupts the learning process. Southeastern Technical College considers both tardiness and leaving early as types of absenteeism. Responsibility for class attendance rests with the student. Regular and punctual attendance at all scheduled classes is required for student success. Students will be expected to complete all work required by the instructor as described in the individual course syllabus.

Instructors have the right to give unannounced quizzes/assignments. Students who miss an unannounced quiz or assignment will receive a grade of 0. Students who stop attending class, but do not formally withdraw, may receive a grade of “F” (Failing 0-59) and face financial aid repercussions in upcoming semesters.

Instructors are responsible for determining whether missed work may be made up and the content and dates for makeup work is at the discretion of the instructor.

STUDENTS WITH DISABILITIES

Students with disabilities who believe that they may need accommodations in this class based on the impact of a disability are encouraged to contact the appropriate campus coordinator to request services.

Swainsboro Campus: [Daphne Scott \(dscott@southeasterntech.edu\)](mailto:dscott@southeasterntech.edu) 478-289-2274, Building 1, Room 1210.

Vidalia Campus: [Helen Thomas \(hthomas@southeasterntech.edu\)](mailto:hthomas@southeasterntech.edu), 912-538-3126, Building A, Room 165.

SPECIFIC ABSENCES

Provisions for Instructional Time missed because of documented absences due to jury duty, military duty, court duty, or required job training will be made at the discretion of the instructor.

PREGNANCY

Southeastern Technical College does not discriminate on the basis of pregnancy. However, we can offer accommodations to students who are pregnant that need special consideration to successfully complete the course. If you think you will need accommodations due to pregnancy, please make arrangements with the appropriate campus coordinator.

Swainsboro Campus: [Daphne Scott \(dscott@southeasterntech.edu\)](mailto:dscott@southeasterntech.edu) 478-289-2274, Building 1, Room 1210.

Vidalia Campus: [Helen Thomas \(hthomas@southeasterntech.edu\)](mailto:hthomas@southeasterntech.edu), 912-538-3126, Building A, Room 165.

It is strongly encouraged that requests for consideration be made **PRIOR** to delivery and early enough in the pregnancy to ensure that all the required documentation is secured before the absence occurs. Requests made after delivery MAY NOT be accommodated. The coordinator will contact your instructor to discuss accommodations when all required documentation has been received. The instructor will then discuss a plan with you to make up missed assignments.

WITHDRAWAL PROCEDURE

Students wishing to officially withdraw from a course(s) or all courses after the drop/add period and prior to the 65% point of the term in which student is enrolled (date will be posted on the school calendar) must speak with a Career Counselor in Student Affairs and complete a Student Withdrawal Form. A grade of "W" (Withdrawn) is assigned for the course(s) when the student completes the withdrawal form.

Important – Student-initiated withdrawals are not allowed after the 65% point. After the 65% point of the term in which the student is enrolled, the student has earned the right to a letter grade and will receive a grade for the course. Please note: Abandoning a course(s) instead of following official withdrawal procedures may result in a grade of "F" (Failing 0-59) being assigned.

Informing your instructor that you will not return to his/her course, does not satisfy the approved withdrawal procedure outlined above.

There is no refund for partial reduction of hours. Withdrawals may affect students' eligibility for financial aid for the current semester and in the future, so a student must also speak with a representative of the Financial Aid Office to determine any financial penalties that may be assessed due to the withdrawal. A grade of "W" will count in attempted hour calculations for the purpose of Financial Aid.

MAKEUP GUIDELINES (TESTS, QUIZZES, HOMEWORK, PROJECTS, ETC.)

Extenuating circumstances are determined at the instructor's discretion. Unless otherwise scheduled with the instructor, it is expected that the test will be taken the next day, scheduled outside of regular class time. Failure to follow this procedure will result in a grade of zero.

ACADEMIC DISHONESTY POLICY

The Southeastern Technical College Academic Dishonesty Policy states that all forms of academic dishonesty, including but not limited to cheating on tests, plagiarism, collusion, and falsification of information, will call for discipline. The policy can also be found in the Southeastern Technical College Catalog and Handbook.

PROCEDURE FOR ACADEMIC MISCONDUCT

The procedure for dealing with academic misconduct and dishonesty is as follows:

1. First Offense

Student will be assigned a grade of "0" for the test or assignment. Instructor keeps a record in course/program files and notes as first offense. The instructor will notify the student's program advisor, academic dean, and the Registrar at the student's home campus. The Registrar will input the incident into Banner for tracking purposes.

2. Second Offense

Student is given a grade of "WF" (Withdrawn Failing) for the course in which offense occurs. The instructor will notify the student's program advisor, academic dean, and the Registrar at the student's home campus indicating a "WF" has been issued as a result of second offense. The Registrar will input the incident into Banner for tracking purposes.

3. Third Offense

Student is given a grade of "WF" for the course in which the offense occurs. The instructor will notify the student's program advisor, academic dean, and the Registrar at the student's home campus indicating a "WF" has been issued as a result of third offense. The Vice President for Student Affairs, or designee, will notify the student of suspension from college for a specified period of time. The Registrar will input the incident into Banner for tracking purposes.

STATEMENT OF NON-DISCRIMINATION

As set forth in the student catalog, Southeastern Technical College does not discriminate on the basis of race, color, creed, national or ethnic origin, sex, religion, disability, age, political affiliation or belief, genetic information, veteran status, or citizenship status (except in those special circumstances permitted or mandated by law).

The following individuals have been designated to handle inquiries regarding the nondiscrimination policies:

| | |
|--|---|
| American With Disabilities Act (ADA)/Section 504 - Equity- Title IX (Students) – Office of Civil Rights (OCR) Compliance Officer | Title VI - Title IX (Employees) – Equal Employment Opportunity Commission (EEOC) Officer |
| Helen Thomas, Special Needs Specialist Vidalia Campus 3001 East 1 st Street, Vidalia Office 165 Phone: 912-538-3126 Email: Helen Thomas hthomas@southeasterntech.edu | Lanie Jonas, Director of Human Resources Vidalia Campus 3001 East 1 st Street, Vidalia Office 138B Phone: 912-538-3230 Email: Lanie Jonas ljonas@southeasterntech.edu |

ACCESSIBILITY STATEMENT

Southeastern Technical College is committed to making course content accessible to individuals to comply with the requirements of Section 508 of the Rehabilitation Act of Americans with Disabilities Act (ADA). If you find a problem that prevents access, please contact the course instructor.

GRIEVANCE PROCEDURES

Grievance procedures can be found in the Catalog and Handbook located on Southeastern Technical College's website.

ACCESS TO TECHNOLOGY

Students can now access Blackboard, Remote Lab Access, Student Email, Library Databases (Galileo), and BannerWeb via the mySTC portal or by clicking the Current Students link on the [Southeastern Technical College \(STC\) Website \(www.southeasterntech.edu\)](http://www.southeasterntech.edu).

TECHNICAL COLLEGE SYSTEM OF GEORGIA (TCSG) GUARANTEE/WARRANTY STATEMENT

The Technical College System of Georgia guarantees employers that graduates of State Technical Colleges shall possess skills and knowledge as prescribed by State Curriculum Standards. Should any graduate employee within two years of graduation be deemed lacking in said skills, that student shall be retrained in any State Technical College at no charge for instructional costs to either the student or the employer.

GRADING POLICY

| Assessment/Assignment | Percentage |
|-------------------------------|------------|
| Test | 35% |
| Know and Understand Questions | 5% |
| Lab Work | 60% |

GRADING SCALE

| Letter Grade | Range |
|--------------|--------|
| A | 90-100 |
| B | 80-89 |
| C | 70-79 |
| D | 60-69 |
| F | 0-59 |

ELTR 1090 Commercial Wiring 2 Fall Semester 2022 Lesson Plan

| Date | Chapter | Content | Assignments & Tests | Competency Area |
|----------------------------|---------------------------------|--|---|-----------------|
| August 15 | | <ul style="list-style-type: none"> • Fall Semester Begins | <ul style="list-style-type: none"> • | |
| August 17- September 7 | Chapter 3- Tools | <ul style="list-style-type: none"> • Recognize the basic construction tools used by electricians. • Identify the tools used specifically for electrical installation. • List basic safety rules for using tools. • Identify various types of bending tools and pulling equipment. • Explain the functions of various electrical testing devices. | <ul style="list-style-type: none"> • Read Chapter 3- Tools • Complete Know and Understand Questions • Complete Chapter 3 Test | 1.2 a,b,c |
| September 14- October 5 | Chapter 5- Wiring Methods | <ul style="list-style-type: none"> • List the wiring methods available for commercial installation and the rules regarding each method of wiring. • Size wireways to satisfy Code requirements. • Identify fittings, connectors, supports, and other integral hardware unique to a particular wiring method. • Select the correct wiring method based on Code requirements. • Calculate wireway size. | <ul style="list-style-type: none"> • Read Chapter 5- Wiring Methods • Complete Chapter 5- Wiring Methods Know and Understand Questions • Complete Chapter 5- Wiring Methods Test | 1.2 a,b,c |
| October 10 | | <ul style="list-style-type: none"> • Midterm | <ul style="list-style-type: none"> • Midterm- There is no midterm exam. Just a reminder that the semester is half way complete. Stay on Task and finish strong | |

| Date | Chapter | Content | Assignments & Tests | Competency Area |
|---------------------------|--|--|---|-----------------|
| October 12- November 2 | Chapter 6- Conductors | <ul style="list-style-type: none"> • Recall the Code rules regarding conductors for general wiring. • Identify the different functions of conductors in an electrical system. • List the factors that affect conductor ampacity rating. • Explain the cause of voltage drop and compute the voltage drop of a conductor. • Select different types of conductors. • Size conductors based on circuit load using the Code. • Use the Code to adjust conductor ampacity based on ambient temperature and number of conductors. • Designate conduit sizes based on permissible percentage fill of conduit. | <ul style="list-style-type: none"> • Read Chapter 6- Conductors • Complete Chapter 6- Conductors Know and Understand Questions • Complete Chapter 6- Conductors Test | 1.2 a,b,c |
| October 24 | | <ul style="list-style-type: none"> • 65% Point Full Term | Last day for students to formally withdraw from Full term classes without academic penalty | |
| November 9- December 7 | Chapter 7- Boxes and Conduit Bodies | <ul style="list-style-type: none"> • Identify different types of boxes. • Select boxes for various applications. • Explain how boxes are grounded. • Mount and support boxes in accordance with the Code. • Identify various types of conduit bodies. • Perform box fill calculations using the Code. • Compute box sizes for straight and angular pulls. | <ul style="list-style-type: none"> • Read Chapter 7- Boxes and Conduit Bodies • Complete Chapter 7- Boxes and Conduit Bodies Know and Understand Questions • Complete Chapter 7- Boxes and Conduit Bodies Test | 1.2 a,b,c |

COMPETENCY AREAS: INDUSTRIAL SAFETY PROCEDURES

1. Conduit Installation
2. System Design Concepts

GENERAL CORE EDUCATIONAL COMPETENCIES:

- a) The ability to utilize standard written English.
- b) The ability to solve practical mathematical problems.
- c) The ability to read, analyze, and interpret information.