



Residential Wiring 1ELTR 1205 HYBRID COURSE SYLLABUS Spring Semester 2017

Semester: Spring 2017
Course Title: Residential Wiring 1
Course Number: ELTR 1205
Credit Hours/ Minutes: 3 / 3000

Class Location: Building 6 Lab 6102
Class Meets: 9:15AM- 11:55AM
MW from 1/9/17-3/1/17
CRN: 40161

Instructor: Tony Criswell
Email Address: tcriswell@southeasterntech.edu
Office Location: Building 6 Lab 6102
Office Hours: 8:15-9:00AM Monday- Thursday and
1-3:00PM Monday- Wednesday
Phone: 478-289-2235
Preferred Method of Contact is E-mail

This course is taught in a hybrid format. Hybrid classes require students to complete a portion of the required contact hours traditionally by attending classes on campus while completing the remaining portion online at the student's convenience with respect to the instructor's requirements.

REQUIRED TEXT:

- **NEC 2014 Code Spiral bound**, Published by NFPA, Distributed by Builders Book, ISBN 978-1-455-90673-4
- **Residential Wiring Trainee Guide** by NCCER, Pearson Publishers ISBN 978-1-269-83002-7

Note: Although students can use their smart phones and tablets to access the online portion of their course(s), exams, discussions, assignments, and other graded activities should be performed on a personal computer. Neither ANGEL nor 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 complete the online portion of the course

REQUIRED SUPPLIES & SOFTWARE: **Tools and Safety Glasses**

COURSE DESCRIPTION: Introduces residential wiring practices.

MAJOR COURSE COMPETENCIES: Print Reading, National Electric Code, Wiring Materials and Methods, and Control of Luminaries and Receptacle Installation

PREREQUISITE(S): None

COURSE OUTLINE:

1. Print Reading
2. National Electric Code
3. Wiring Materials and Methods
4. Control of Luminaries and Receptacle Installation

GENERAL EDUCATION CORE COMPETENCIES: STC has identified the following general education core competencies that graduates will attain:

- 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.

STUDENT REQUIREMENTS (Hybrid): 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 Systems Technology program**

students must earn a minimum grade of C in this course.

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 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.

WITHDRAWAL PROCEDURE: Students wishing to officially withdraw from a course(s) or all courses after the drop/add period and prior to the 65% portion of the semester (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" is assigned when the student completes the withdrawal form from the course.

Abandoning a course(s) instead of following official withdrawal procedures may result in a grade of 'F' being assigned.

After the 65% portion of the semester, the student will receive a grade for the course. (Please note: A zero will be given for all missed assignments.)

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. All grades, including grades of 'W', will count in attempted hour calculations for the purpose of Financial Aid.

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

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.

SPECIAL NEEDS: Students with disabilities who believe that they may need accommodations in this class based on the impact of a disability are encouraged to contact Helen Thomas, 912-538-3126, hthomas@southeasterntech.edu, to coordinate reasonable accommodations.

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 advise me and make appropriate arrangements with the Special Needs Office. Swainsboro Campus: Jan Brantley, Room 1208, (478) 289-2274 -- Vidalia Campus: Helen Thomas, Room 108, (912) 538-3126.

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.

Assignment due dates are listed on the attached lesson schedule. Students are expected to have the assignment completed at the beginning of class on the date that it is due. It is within the instructor's discretion to accept or reject late assignments. Any late assignments accepted will be subject to a ten point penalty each day the assignment is late. After three class meetings, no late assignments will be accepted; a zero will be recorded.

Unannounced quizzes are subject to be given on any day. A grade of zero will be assigned for any quizzes missed. There will be no makeup of quizzes. Any zeros recorded will be included in the final score calculation

ACADEMIC DISHONESTY POLICY: The STC Academic Dishonesty Policy states *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 *STC Catalog and Student Handbook.*

Procedure for Academic Misconduct

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

--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.

--Second Offense--

Student is given a grade of "WF" 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.

--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 second 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: Southeastern Technical College does not discriminate on the basis of race, color, creed, national or ethnic origin, gender, religion, disability, age, disabled veteran, veteran of Vietnam Era or citizenship status, (except in those special circumstances permitted or mandated by law). This school is in compliance with Title VI of the Civil Rights Act of 1964, which prohibits discrimination on the basis of race, color, or national origin; with the provisions of Title IX of the Educational Amendments of 1972, which prohibits discrimination on the basis of gender; with the provisions of Section 504 of the Rehabilitation Act of 1973, which prohibits discrimination on the basis of handicap; and with the American with Disabilities Act (ADA).

GRIEVANCE PROCEDURES: Grievance procedures can be found in the Catalog and Handbook located on STC'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 STC website at www.southeasterntech.edu.

GRADING POLICY

Module Test	40%
Review Questions	10%
Performance Evaluations	50%
Total	100%

GRADING SCALE

A: 90-100
B: 80-89
C: 70-79
D: 60-69
F: 0-59

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.*

ELTR 1205 RESIDENTIAL WIRING 1 LESSON PLAN

SPRING SEMESTER 2016

ITEMS THAT ARE COLORED RED ARE ON-LINE

ITEMS THAT ARE COLORED BLUE ARE DONE ON CAMPUS

DATES	Module	Content (Classroom Activities)	ASSIGNMENTS		Comp Area Gen. Ed Comp
January 9	Spring Semester Begins		Classroom	On-Line/ Away from Class	
January 9 Begin January 18 All Items Due	Introduction to the National Electrical Code- Module 26105	<ul style="list-style-type: none"> Explain the purpose and history of the NEC Describe the layout of the NEC Demonstrate how to navigate the NEC 	<ul style="list-style-type: none"> Complete in –class National Electrical Code sheet Complete Module 26105 Performance Profile Sheet Take the Module 26105Exam 	<ul style="list-style-type: none"> Read Module 26105 of the Residential Wiring Trainee Guide Pages 5-17 Look at the PowerPoint's in Blackboard for Module 26105 Answer the module review questions in Module 26105 Pages 17-18 Complete Supplemental Exercises Page 20-21 and submit your answers online 	2 A,C
January 18 Begin January 25 All Items Due	Device Boxes Module 26106	<ul style="list-style-type: none"> Describe the different types of nonmetallic and metallic boxes Calculate the NEC fill requirements for boxes under 100 cubic inches Identify the appropriate box type and size for a given application Select and demonstrate the appropriate method for mounting a given box 	<ul style="list-style-type: none"> Complete lab sheet for Device boxes Complete Module 26106 Performance Profile Sheet Take the Module 26106 Exam 	<ul style="list-style-type: none"> Read Module 26106 of the Residential Wiring Trainee Guide Pages 31-47 Look at the PowerPoint's in Blackboard for Module 26106 Answer the module review questions in Module 26106 Page 48 Complete Supplemental Exercises Page 50 and submit your answers online 	
January 30 Begin February 6 All Items Due	Conductors and Cables- Module 26109	<ul style="list-style-type: none"> From the cable markings, describe the insulation and jacket material, conductor size and type, number of conductors, temperature rating, voltage rating, and permitted uses Determine the allowable ampacity of a conductor for a given application Identify the NEC requirements for color coding of conductors 	<ul style="list-style-type: none"> Complete lab sheet for Conductors and Cables Complete Module 26109 Performance Profile Sheet Take the Module 26109Exam 	<ul style="list-style-type: none"> Read Module 26109 of the Residential Wiring Trainee Guide pages 59-81 Look at the Conductors and Cables PowerPoint in Blackboard for Module 26109 Answer the module review questions in Module 26109 pages 82-83 	1, 2 A,B,C
February 6 Begin February 13 End All Items Due	Electric Lighting- Module 26203	<ul style="list-style-type: none"> Recognize the different kinds of lamps and explain the advantages and disadvantages of each type Properly select and install various lamps into lighting fixtures Recognize and describe the installation requirements for various types of lighting fixtures 	<ul style="list-style-type: none"> Complete Lighting Fixture Symbol sheet Complete Module 26203 Performance Profile Sheet Take the Module 26203Exam 	<ul style="list-style-type: none"> Read Module 26203 of the Residential Wiring Trainee Guide pages 93-146 Look at the Electric Lighting PowerPoint's in Blackboard for Module 26203 Answer the module review questions in Module 26203 page 147-148 	2, 3 A,B,C

<p>February 15 Begin</p> <p>February 22 END All Items Due</p>	<p>Conductor Terminations and Splices- Module 26208</p>	<ul style="list-style-type: none"> Describe how to make a good conductor termination] Prepare cable ends for termination Understand the National Electric Code requirements for making cable terminations and splices 	<ul style="list-style-type: none"> Complete Conductor Terminations and Splices lab Complete Module 26208 Performance Profile Sheet Take the Module 26208Exam 	<ul style="list-style-type: none"> Read Module 26208 of the Residential Wiring Trainee Guide pages 161-194 Look at the Conductor Terminations and Splices PowerPoint in Blackboard for Module 26208-14 Answer the module review questions in Module 26208 pages 195-196 	<p>2,4 A,C</p>
<p>February 22 Begin</p> <p>March 1 All Items Due</p>	<p>Conductor Selection and Calculations Module 26302</p>	<ul style="list-style-type: none"> Select electrical conductors for specific applications. Apply <i>National Electrical Code® (NEC®)</i> regulations governing conductors to a specific application Size conductors for the load De-rate conductors for fill, temperature, and voltage drop 	<ul style="list-style-type: none"> Complete Conductor Selection and Calculations sheet Complete Module 26302 Performance Profile Sheet Take the Module 26302Exam 	<ul style="list-style-type: none"> Read Module 26302 of the Residential Wiring Trainee Guide pages 201-225 Look at the Conductor Selection and Calculations PowerPoint in Blackboard for Module 26302 Answer the module review questions in Module 26302 page 226 	
<p>COURSE COMPETENCIES:</p> <ol style="list-style-type: none"> Print Reading National Electric Code Wiring Materials and Methods Control of Luminaries and Receptacle Installation 			<p>GENERAL EDUCATION CORE COMPETENCIES:</p> <ol style="list-style-type: none"> The ability to utilize standard written English. The ability to solve practical mathematical problems. The ability to read, analyze, and interpret information. 		