



TENTATIVE—SUBJECT TO CHANGE
ICMT 1030 Industrial Electrical Fundamentals
HYBRID COURSE SYLLABUS
Spring Semester 2020

COURSE INFORMATION

Credit Hours/Minutes: 4/4500

Class Location: Swainsboro Campus Building 6 Lab 6102

Class Meets: Monday and Wednesday 11:01AM- 12:50PM (Hybrid 40%/F2F 60%)

Course Reference Number (CRN): 40050

INSTRUCTOR CONTACT INFORMATION

Instructor Name: Tony Criswell

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

Campus/Office Location: Swainsboro Building 6 Lab 6102

Office Hours: Monday 1:00PM- 3:30PM; Wednesday 1:00PM- 3:00PM

Phone: 478-289-2235

Fax Number: 478-289-2276

Tutoring Hours: Available upon request

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.

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 \(http://www.southeasterntech.edu/student-affairs/catalog-handbook.php\)](http://www.southeasterntech.edu/student-affairs/catalog-handbook.php).

REQUIRED TEXT

Industrial Electrical and Instrumentation Level 2, 3rd edition; ISBN 978-0-13-614390-1; Publisher- Pearson

REQUIRED SUPPLIES & SOFTWARE

Hand Tools

Safety Glasses

COURSE DESCRIPTION

This course introduces concepts of electrical fundamentals in industrial maintenance

MAJOR COURSE COMPETENCIES

Industrial Safety, National Electrical Code (NEC), Electrical Theory, Alternating Current, Test Equipment, Flow, Pressure, Level, and Temperature, and Process Mathematics.

PREREQUISITE(S)

None

COURSE OUTLINE

1. Industrial Safety
2. National Electrical Code (NEC)
3. Electrical Theory
4. Alternating Current
5. Test Equipment
6. Flow, Pressure, Level, and Temperature
7. Process Mathematics

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*. **Industrial Electrical Technology and Electrical Construction 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 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: Macy Gay (mgay@southeasterntech.edu), 478-289-2274, Building 1, Room 1210

Vidalia Campus: Helen Thomas (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: Macy Gay (mgay@southeasterntech.edu), 478-289-2274, Building 1, Room 1210

Vidalia Campus: Helen Thomas (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.

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 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

The Technical College System of Georgia and its constituent Technical Colleges do not discriminate on the basis of race, color, creed, national or ethnic origin, sex, religion, disability, age, political affiliation or belief, genetic information, disabled veteran, veteran of the Vietnam Era, spouse of military member 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).

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 108 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
Performance Evaluations	60%
Module Exams	30%
Review Questions	10%

GRADING SCALE

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

ICMT 1030 Industrial Electrical Fundamentals Spring Semester 2020 Lesson Plan

Date/ Week	Module	Content	Assignments & Tests Due Dates	Competency Area
January 8- 22	Class Introduction Module 1	Syllabus, Outline, Lab Rules & Regulations coverage Industrial Safety for Electrical and Instrumentation Technicians	In Class- <ul style="list-style-type: none"> • Instructor will go over syllabus, lesson plan, lab rules, how to access the hybrid portion of the class • Instructor will discuss Industrial Safety for Electrical and Instrumentation Technicians • Take the Module 1 Exam Hybrid- <ul style="list-style-type: none"> • Read Module 1 of the Industrial Electrical and Instrumentation Level 2 Trainee Guide • Look over Module 1 PowerPoints in Blackboard • Watch videos in Blackboard for Module 1 Industrial Safety for Electrical and Instrumentation Technicians • Answer Review Questions for Module 1 in Industrial Electrical and Instrumentation Level 2 Trainee Guide and place them in the drop box in Blackboard or email them to me • Complete Discussion Board 1 in Blackboard 	1 a,b,c

Date/ Week	Module	Content	Assignments & Tests Due Dates	Competency Area
January 27- February 5	2	Introduction to the National Electric Code	In Class- <ul style="list-style-type: none"> • Instructor will discuss Introduction to the National Electric Code • Take the Module 2 Exam Hybrid- <ul style="list-style-type: none"> • Read Module 2 of the Industrial Electrical and Instrumentation Level 2 Trainee Guide • Look over Module 2 PowerPoints in Blackboard • Watch videos in Blackboard for Module 2 Introduction to the National Electric Code • Answer Review Questions for Module 2 in Industrial Electrical and Instrumentation Level 2 Trainee Guide and place them in the drop box in Blackboard or email them to me • Complete Discussion Board 2 in Blackboard 	2 a,c
February 10- 19	3	Electrical Theory	In Class- <ul style="list-style-type: none"> • Instructor will discuss Electrical Theory • Take the Module 3 Exam Hybrid- <ul style="list-style-type: none"> • Read Module 3 of the Industrial Electrical and Instrumentation Level 2 Trainee Guide • Look over Module 3 PowerPoints in Blackboard • Watch videos in Blackboard for Module 3 Electrical Theory • Answer Review Questions for Module 3 in Industrial Electrical and Instrumentation Level 2 Trainee Guide and place them in the drop box in Blackboard or email them to me • Complete Discussion Board 3 in Blackboard 	3 a,b,c

Date/ Week	Module	Content	Assignments & Tests Due Dates	Competency Area
February 24- March 4	4	Alternating Current	In Class- <ul style="list-style-type: none"> • Instructor will discuss Alternating Current • Take the Module 4 Exam Hybrid- <ul style="list-style-type: none"> • Read Module 4 of the Industrial Electrical and Instrumentation Level 2 Trainee Guide • Look over Module 4 PowerPoints in Blackboard • Watch videos in Blackboard for Module 4 Alternating Current • Answer Review Questions for Module 4 in Industrial Electrical and Instrumentation Level 2 Trainee Guide and place them in the drop box in Blackboard or email them to me • Complete Discussion Board 4 in Blackboard 	4 a,b,c
April 1-4			<ul style="list-style-type: none"> • Spring Break 	
March 9- 18	5	E&I Test Equipment	In Class- <ul style="list-style-type: none"> • Instructor will discuss E&I Test Equipment • Take the Module 5 Exam Hybrid- <ul style="list-style-type: none"> • Read Module 5 of the Industrial Electrical and Instrumentation Level 2 Trainee Guide • Look over Module 5 PowerPoints in Blackboard • Watch videos in Blackboard for Module 5 E&I Test Equipment • Answer Review Questions for Module 5 in Industrial Electrical and Instrumentation Level 2 Trainee Guide and place them in the drop box in Blackboard or email them to me • Complete Discussion Board 5 in Blackboard 	5 a,c

Date/ Week	Module	Content	Assignments & Tests Due Dates	Competency Area
March 23- April 1	6	Flow, Pressure, Level, and Temperature	<p>In Class-</p> <ul style="list-style-type: none"> • Instructor will discuss Flow, Pressure, Level, and Temperature • Take the Module 6 Exam <p>Hybrid-</p> <ul style="list-style-type: none"> • Read Module 6 of the Industrial Electrical and Instrumentation Level 2 Trainee Guide • Look over Module 6 PowerPoints in Blackboard • Watch videos in Blackboard for Module 6 Electrical Theory • Answer Review Questions for Module 6 in Industrial Electrical and Instrumentation Level 2 Trainee Guide and place them in the drop box in Blackboard or email them to me • Complete Discussion Board 6 in Blackboard 	6 a,b,c
April 13- 22	7	Process Mathematics	<p>In Class-</p> <ul style="list-style-type: none"> • Instructor will discuss Process Mathematics • Take the Module 7 Exam <p>Hybrid-</p> <ul style="list-style-type: none"> • Read Module 7 of the Industrial Electrical and Instrumentation Level 2 Trainee Guide • Look over Module 7 PowerPoints in Blackboard • Watch videos in Blackboard for Module 7 Process Mathematics • Answer Review Questions for Module 7 in Industrial Electrical and Instrumentation Level 2 Trainee Guide and place them in the drop box in Blackboard or email them to me • Complete Discussion Board 3 in Blackboard 	7 a,b,c

COMPETENCY AREAS:

1. Industrial Safety
2. National Electrical Code (NEC)
3. Electrical Theory
4. Alternating Current
5. Test Equipment
6. Flow, Pressure, Level, and Temperature
7. Process Mathematics

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.