



AUTT 1020 Automotive Electrical / Electronics Systems
COURSE SYLLABUS
Fall Semester 2023 (202412)

COURSE INFORMATION

Credit Hours/Minutes: 7/12000
Campus/Class Location: Vidalia/SECCA AT-2
Class Meets: 9:00am-12:40pm; MTWR
Course Reference Number (CRN): 20206

INSTRUCTOR CONTACT INFORMATION

Instructor contact information Instructor Name: Will Fountain
Campus/Office Location: Vidalia/SECCA Building
Office Hours: MTW 7:30-9:00am R 1:00-5:00pm
Email Address: [Will Fountain wfountain@southeasterntech.edu](mailto:wfountain@southeasterntech.edu)
Phone: 912-538-3155
Tutoring Hours (if applicable): See Instructor

SOUTHEASTERN TECHNICAL COLLEGE (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 Automotive Technology 10th Edition, James E. Duffy. Goodheart-Wilcox Company, Inc. ISBN# 978-1-64564-688-4

REQUIRED SUPPLIES & SOFTWARE

Required items include: Automotive Technology Book & Lab Manual and/or Textbook Activation Code, Safety Glasses, 1" Binder notebook for Lab Sheets, Approved Uniform, and STC Automotive Technology Shirts - Cotton. (Shirts can be purchased in the bookstore.)

Recommended, but not required: Nitrile Gloves, Mechanics Gloves.

Clothing: Students must wear cotton clothing for safety requirements. Students must also wear rubber bottomed shoes appropriate for working around electric vehicles. Not wearing proper clothing and shoes may prohibit doing lab work, successful completion of the course, and/or withdrawal from the course.

Personal Protective Equipment (PPE): This course has a fee charged for the use of and access to PPE. Failure to pay the fee may result in withdrawal and/or unsuccessful completion of the course.

Students who are withdrawn are responsible for all costs incurred.

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.

COURSE DESCRIPTION

This course introduces automotive electrical systems, emphasizing the basic operating principles, diagnosis, and service/repair of batteries, starting systems, charging systems, lighting systems, instrument cluster and driver information systems, and body electrical systems.

MAJOR COURSE COMPETENCIES / COURSE OUTLINE

1. General Electrical Systems Diagnosis
2. Battery Diagnosis and Service
3. Starting System Diagnosis and Repair
4. Charging System Diagnosis and Repair
5. Light System Diagnosis and Repair
6. Instrument Cluster and Driver Information Systems Diagnosis and Repair
7. Body Electrical System Diagnosis and Repair

PREREQUISITE(S)

None

CO-REQUISITE(S)

All Required

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

Students are expected to complete all tests and comprehensive problems by the due dates. A ten point penalty will be assessed for each day a comprehensive problem is late. There are no makeup tests. Tests are made available for several days; therefore, there are no makeup tests. Students who miss a test will be assigned a grade of zero. Students are responsible for policies and procedures included in the *STC E-Catalog*.

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 will not be withdrawn by an instructor for attendance; however, all instructors will keep records of graded assignments and student participation in course activities. The completion dates of these activities will be used to determine a student’s last date of attendance in the event a student withdraws, stops attending, or receives an “F” in a course.

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: [Emily Jarrell \(ejarrell@southeasterntech.edu\)](mailto:ejarrell@southeasterntech.edu), 912-289-2259 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: [Emily Jarrell \(ejarrell@southeasterntech.edu\)](mailto:ejarrell@southeasterntech.edu), 912-289-2259 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.

EXIT EXAM

This course has an exit/capstone exam that must be taken and passed with a 70 or higher.

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

(Tests, quizzes, homework, projects, etc.): If a student misses a test, a grade of zero will be assigned. **Only students with extenuating circumstances (who contact the instructor on the day of the test regarding their absence) will be allowed to take a makeup test, which will replace the zero.** 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	Melanie Walker, Director of Human Resources Vidalia Campus 3001 East 1 st Street, Vidalia Office 138B Phone: 912-538-3230 Email: Melanie Walker mwalker@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
Tests	30%
Lab Activities	30%
Assignments	20%
Finals	20%

GRADING SCALE

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

AUTT 1020 Automotive Electrical / Electronics Systems Fall Semester 2023 Lesson Plan

Date/Week	Chapter/Lesson	Content	Assignments & Tests Due Dates	Competency Area
August 21/WK 1	Chapter 17	Electrical Principle	Chapter 17; lecture, lab, review questions, ASE questions, test	1,a,b,c
August 28/WK 2	Chapter 17	Electrical Principle	Chapter 17; lecture, lab, review questions, ASE questions, test	1,a,b,c
September 5/WK 3 (Sept. 4 Holiday)	Chapter 18	Circuit Types and Ohm's Law	Chapter 18; lecture, lab, review questions, ASE questions, test	1,a,b,c
September 11/WK 4	Chapter 18	Circuit Types and Ohm's Law	Chapter 18; lecture, lab, review questions, ASE questions, test	1,a,b,c
September 18/WK 5	Chapter 18	Circuit Types and Ohm's Law	Chapter 18; lecture, lab, review questions, ASE questions, test	1,a,b,c
September 25/WK 6	Chapter 19	Electric and Electrical Components	Chapter 19; lecture, lab, review questions, ASE questions, test	1,2,3,4,5,a,b,c
October 2/ WK 7	Chapter 19	Electric and Electrical Components	Chapter 19; lecture, lab, review questions, ASE questions, test	1,2,3,4,5,a,b,c
October 9 /WK 8	Chapter 19	Electric and Electrical Components	Chapter 19; lecture, lab, review questions, ASE questions, test	1,2,3,4,5,a,b,c
October 16 /WK 9	Chapter 20	Electric Tools and Test Equipment	Chapter 20; lecture, lab, review questions, ASE questions, test	1,3,4,a,b,c
October 23 /WK 10	Chapter 20	Electric Tools and Test Equipment	Chapter 20; lecture, lab, review questions, ASE questions, test	1,3,4,a,b,c
October 30 /WK11	Chapter 21	Wiring Diagrams and Wiring Repairs	Chapter 21; lecture, lab, review questions, ASE questions, test	1,3,5,a,b,c

Date/Week	Chapter/Lesson	Content	Assignments & Tests Due Dates	Competency Area
November 6 / WK 12	Chapter 21	Wiring Diagrams and Wiring Repairs	Chapter 21; lecture, lab, review questions, ASE questions, test	1,3,5,a,b,c
November 13 / WK13	Chapter 21	Wiring Diagrams and Wiring Repairs	Chapter 21; lecture, lab, review questions, ASE questions, test	1,3,5,a,b,c
November 20 / WK 14		Thanksgiving		
November 27 / WK 15	Chapter 22	Basic Electrical Test	Chapter 22; lecture, lab, review questions, ASE questions, test	1,4,5,6,7,a,b,c
December 4 / WK16	Chapter 22	Basic Electrical Test	Chapter 22; lecture, lab, review questions, ASE questions, test	1,4,5,6,7,a,b,c
December 11 /WK 17	FINALS	FINALS	FINALS	1,2,3,4,5,6,7,a,b,c

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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.

