



DIET 1010
Diesel Electrical and Electronic systems

COURSE SYLLABUS
Fall Semester 2021 (202212)

COURSE INFORMATION

Credit Hours/Minutes: 10500/7
Campus/Class Location: Swainsboro Campus / Room 2139
Class Meets: Monday, Tuesday, Wednesday, Thursday 8:00-11:15
Course Reference Number (CRN): 20014

INSTRUCTOR CONTACT INFORMATION

Instructor: Jeffrey Wyatt
Office Hours: Monday-Thursday (MTWR) 7:00-8:15 AM, 4:00-5:15 PM
Office Location: Building 2 Room 2139
Email Address: Jeffrey Wyatt (jwyatt@southeasterntech.edu)
Phone: 478-289-2218

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/college-catalog/downloads/current.pdf) (<https://catalog.southeasterntech.edu/college-catalog/downloads/current.pdf>).

REQUIRED TEXT

Electude Heavy Vehicles Systems, 12 Month voucher, ISBN 97894-93163-75-1
Fundamentals of Medium/Heavy Commercial Vehicle Systems, Second Edition Two year voucher, ISBN 9781284196429

REQUIRED SUPPLIES & SOFTWARE

Notebook for notes, pens, pencils, cloth mask, and safety glasses. Other recommended, but not required: work gloves, nitrile gloves, safety toe boots

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

COURSE DESCRIPTION

This course introduces students to diesel electrical and electronic systems used on medium/heavy duty trucks

and heavy equipment, topics include: general electrical systems diagnosis: battery diagnosis and repair; starting system diagnosis and repair; and basic lighting diagnosis and repair.

MAJOR COURSE COMPETENCIES / OUTLINE

1. General Electrical Systems Diagnosis Text
2. Battery Diagnosis and Repair
3. Starting System Diagnosis and Repair
4. Charging System Diagnosis and Repair
5. Lighting Systems Diagnosis and Repair
6. Gauges and Warning Devices
7. Related Electrical Systems

PREREQUISITE(S)

DIET 1000 – introduction to Diesel Technology, Tools, and Safety

GENERAL EDUCATION CORE COMPETENCIES

Southeastern Technical College has identified the following general education core competencies that graduates will attain: The ability to utilize standard written English.

1. The ability to solve practical mathematical problems.
2. The ability to read, analyze, and interpret information.

STUDENT REQUIREMENTS

Safety Glasses required any time students are in the shop.

Long Pants, ***(No Shorts are allowed)***

Safety Toe Boots strongly recommended. ***(No open toe or open heel shoes are allowed)***

Tee Shirts or Button up shirts are allowed, ***(No tank tops, or cut off shirts allowed)***

STC Diesel Tee shirts are available at the book store 1 required.

COVID-19 MASK REQUIREMENT

Regardless of vaccination status, masks or face coverings must be worn at all times while in a classroom or lab of Southeastern Technical College. 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). A student's refusal to wear a mask or face covering will be considered a classroom disruption and the student may be asked to leave campus and/or receive further discipline.

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.

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.

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: [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.

EXIT EXAM

Exit Exam will be Proctored and on the last day of class. Required to pass class.

WORK ETHICS

Taught in DIET 1000 only.

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

Any assignment can be made up with acceptable excuse approved by the instructor; any assignment not made up will result in the student receiving a 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

The Technical College System of Georgia (TCSG) and its constituent Technical Colleges do not discriminate on the basis of race, color, creed, national or ethnic origin, gender, 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 nondiscrimination policy encompasses the operation of all technical college-administered programs, federally financed programs, educational programs and activities involving admissions, scholarships and loans, student life, and athletics. It also applies to the recruitment and employment of personnel and contracting for goods and services.

All work and campus environments shall be free from unlawful forms of discrimination, harassment and retaliation as outlined under Title IX of the Educational Amendments of 1972, Title VI and Title VII of the Civil Rights Act of 1964, as amended, the Age Discrimination in Employment Act of 1967, as amended, Executive Order 11246, as amended, the Vietnam Era Veterans Readjustment Act of 1974, as amended, Section 504 of the Rehabilitation Act of 1973, as amended, the Americans With Disabilities Act of 1990, as amended, the Equal Pay Act, Lilly Ledbetter Fair Pay Act of 2009, the Georgia Fair Employment Act of 1978, as amended, the

Immigration Reform and Control Act of 1986, the Genetic Information Nondiscrimination Act of 2008, the Workforce Investment Act of 1998 and other related mandates under TCSG Policy, federal or state statutes.

The Technical College System and Technical Colleges shall promote the realization of equal opportunity through a positive continuing program of specific practices designed to ensure the full realization of equal opportunity.

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

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

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
Chapter Test	30%
Final Exam	20%
Shop Lab	50%

GRADING SCALE

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

Date/Week	Chapter/Lesson	Content	Assignments & Tests Due Dates	Competency Area
Week One 08/15/2021	Blackboard no show requirements. Electude Electronics Basics #1 - #2	Log in to Blackboard and do the four no show requirements listed in the announcements to secure your seat in the course. These requirements include a Student Introduction Discussion Board. Log in to Electude in Blackboard on left side of screen with the instant access code purchased from the library.	Due on 08/18/2021 By Midnight – Day 3. No show students will be turned in to the registrar by early Monday morning. Electude Electronics Basics #1 - #2	2,6 a,b,c,
Week Two 08/22/2021	Electude Electronics Basics #1 - #2	Electronics Basics #1 - #2 in Electude, do Course and Quiz.	Electude Electronics Basics #1 - #2 Due on 08/25/2021 By Midnight	1,4,6, a,b,c
Week Three 08/29/2021	Fundamentals of Medium/Heavy Commercial Vehicle Systems (CDX) Chapter 1 Electude Electronics Basics #1 - #2	Log in to CDX in Blackboard on the left side of the screen with the instant access code purchased from the library for Fundamentals of Medium/Heavy Commercial Vehicle Systems Electronics Basics #1 - #2 in Electude, do Course and Quiz.	CDX Chapter one Due on MONDAY , 09/01/2021, by Midnight Electude Electronics Basics #1 - #2 Due on 09/01/2021 by Midnight.	1,2,4, a,b,c
Week Four 09/05/2021 Labor Day 09/06/2021 No Class	Electude Electrical Engineering Basics #1 - #2	Electrical Engineering #1 - #2 in Electude, do Course and Quiz	Electrical Engineering Basics #1 - #2 in Electude 09/22/2021	1,2,4 a,b,c

Date/Week	Chapter/Lesson	Content	Assignments & Tests Due Dates	Competency Area
Week Five 09/12/2021	CDX Chapter 8,9 Electude Electrical Engineering Basics #1 - #2	Log in to CDX. Do all Activities and test in Chapters 8,9 Electrical Engineering #1 - #2 in Electude, do Course and Quiz	Due on 09/15/2021 By Midnight Electrical Engineering Basics #1 - #2 in Electude due 09/22/2021	1,3,5,6,7 a,b,c
Week Six 09/19/2021	CDX Chapters 9,10 Electude Electrical Engineering Basics #1 - #2	Log in to CDX. Do all Activities and test in Chapters 9, 10. Electrical Engineering #1 - #2 in Electude, do Course and Quiz	Electrical Engineering Basics #1 - #2 Due on 09/22/2021 By Midnight	1,4,5,7 a,b,c
Week Seven 09/26/2021	CDX Chapters 11,12 Electude Lighting Systems Basics	Log in to CDX. Do all Activities and test in Chapters 10, 11. Electude Lighting Systems Basics, do Course and Quiz	Due on 09/29/2021 By Midnight Electude Lighting Systems Basics Due on 10/06/2021 By Midnight	3,5,7 a,b,c
Week Eight 10/03/2021	CDX Chapters 13,14 Electude Lighting Systems Basics	Log in to CDX. Do all Activities and test in Chapters 13, 14. Electude Lighting Systems Basics, do Course and Quiz	Due on 10/06/2021 By Midnight	2,3,4 b,c
Week Nine 10/10/2021	CDX Chapter 15 and 16 Electude Diesel Systems Actuators Basics	Log in to CDX. Do all Activities and test in Chapter 15, 16. Electude Diesel Systems Actuators Basics do Course and Quiz	Due on 10/13/2021 By Midnight	3,4,5,7 a,b,c
Week Ten 10/17/2021	CDX Chapters 17,18 Electude Diesel Systems Sensors Basics	Log in to CDX. Do all Activities and test in Chapters 17, 18. Electude Diesel Systems Sensors Basics do Course and Quiz	Due on 10/20/2021 By Midnight	1,2,4 a,b,c
Week Eleven 10/24/2021	CDX Chapters 19,20 Electude Diesel Systems Controls Basics	Log in to CDX. Do all Activities and test in Chapters 19, 20. Diesel Systems Controls Basics do Course and Quiz	Due on 10/27/2021 By Midnight	3,6 a,c

Date/Week	Chapter/Lesson	Content	Assignments & Tests Due Dates	Competency Area
Week Twelve 10/31/2021	CDX Chapters 21, 22. Electude Electronic Diesel Systems Sensors Basics	Log in to CDX. Do all Activities and test in Chapters 21, 22. Electronic Diesel Systems Sensors Basics do Course and Quiz	Due on 11/03/2021 By Midnight	2,3,4,5,6 a,b,c
Week Thirteen 11/07/2021	CDX Chapters 23, 24	Log in to CDX. Do all Activities and test in Chapters 23, 24.	Due on 11/11/2021 By Midnight	3 a,b
Week Fourteen 11/14/2021	CDX Chapter 25 Electude CAN Bus Basics	Log in to CDX. Do all Activities and test in Chapters 25. Electude CAN Bus Basics do Course and Quiz	Due on 11/17/2021 By Midnight Electude CAN Bus Basics	1,2,4 a,b,c
Week Fifteen 11/21/2021	Electude CAN Bus Basics	Electude CAN Bus Basics do Course and Quiz	Electude CAN Bus Basics Due on 12/02/2021	3,4,5 a,b,c
Week Sixteen 11/28/2021	Electude CAN Bus Basics	Electude CAN Bus Basics do Course and Quiz	Electude CAN Bus Basics Due on Thursday, 12/02/2021 By 12:00 p.m., NOON	1,2,3,4,5 a,b,c
Week Seventeen 12/05/2021	Work Ethics And Final Exam	Work Ethics and Proctored Final Exam in person at STC Swainsboro campus. 8:00 a.m. until 12:00 p.m.	Due on Tuesday, 12/07/2021 By 12:00 p.m., NOON	1,2,3,4,5,6,7 a,b,c

MAJOR COURSE COMPETENCIES / OUTLINE

1. General Electrical Systems Diagnosis Text
2. Battery Diagnosis and Repair
3. Starting System Diagnosis and Repair
4. Charging System Diagnosis and Repair
5. Lighting Systems Diagnosis and Repair
6. Gauges and Warning Devices
7. Related Electrical Systems

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.

