



AUTT1021
COURSE SYLLABUS
Lecture/ Lab
Fall Semester 2015

Semester: 201516 Fall 2015

Instructor: Travis Williams

Course Title: Automotive Electrical Systems

Office Hours: MTW 4:30PM-6:00PM Thurs-1:00PM-6:00PM

Course Number: AUTT1021

Office Location: SECCA/ Auto Lab/ room AT-1

Credit Hours/ Minutes: 4/6875

Email Address: twilliams@southeasterntech.edu

Class Location: Room # SECCA/Automotive Lab

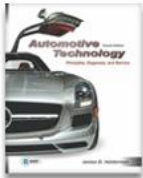
Phone: (912)538-3155

Class Meets: Time/Days of WK: MT 5:00PM-9:10PM

Fax Number: (912) 538-3106

CRN: 2054

REQUIRED TEXT: Automotive Technology; Principles, Diagnosis, and Service Fourth Edition by James D. Halderman, published by Pearson



HALDERMAN **AUTOMOTIVE TECHNOLOGY - PRINCIPLES, DIAGNOSIS, AND SERVICE**

PEARSON

REQUIRED SUPPLIES & SOFTWARE: Required items include; Automotive Technology Book, Automotive Technology lab manual, Safety Glasses, 1" Binder notebook for lab sheets, and Approved Uniform, STC Automotive Technology Shirts. (Shirts can be purchased in the bookstore)

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

COURSE DESCRIPTION: Introduces automotive electricity, emphasizes the basic principles, diagnosis, and service/repair of batteries, starting systems, starting system components, alternators and regulators, lighting systems, gauges, horn, wiper/washer, and accessories.

MAJOR COURSE COMPETENCIES: General electrical system diagnosis, battery diagnosis and service, starting system diagnosis and repair, charging system diagnosis and repair, lighting system diagnosis and repair, gauges, warning devices and driver information systems diagnosis and repair, horn and wiper/washer diagnosis and repair

PRE-requisite(S): none

CO-requisites: All Required

COURSE OUTLINE: I. Work Ethics

II. Battery Diagnosis

III. Starting Systems

GENERAL EDUCATION CORE COMPETENCIES: STC 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.
4. The ability to utilize basic computer skills.

All students pursuing a degree, a diploma, or a Technical Certificate of Credit with a General Education component will be required to pass the General Education Competency Exams prior to graduation.

STUDENT REQUIREMENTS: Assignments must be completed on the specified date. All work must be turned in at the beginning of class on the specified due dates. If a student is absent from class, all work must be turned in at the beginning of class the next day upon returning to class. If this is not done, then a grade of zero will be given on the work. Failure to take tests on the scheduled day will result in a grade of zero for the test not taken. The makeup test must be taken the next day upon returning to class. The zero assigned for the missed test will be replaced with the grade the student makes on the makeup exam.

STUDENTS WILL ONLY BE ALLOWED TO TAKE ONE MAKEUP TEST DURING THE SEMESTER!!!!

WORK ETHICS: The Technical College System of Georgia instructs and evaluates students on work ethics in all programs of study. Ten work ethics traits have been identified and defined as essential for student success: appearance, attendance, attitude, character, communication, cooperation, organizational skills, productivity, respect, and teamwork. Students will be required to take a work ethics exam as marked in the lesson plan. A grade of 70 or better is required to complete the work ethics requirements for this class.

Due date for the Work Ethics Assignment is December 3, 2015.

STC ATTENDANCE POLICY: It is essential that educational programs maintain requirements and standards necessary for successful employment of its graduates in business and industry. In view of the intensive nature of the educational programs, it is necessary for every student to be present and on time every day for all classes. Attendance is counted from the first scheduled class meeting of each semester. To receive credit for a course a student must attend at least 90% of the scheduled instructional time. All work missed due to tardiness or absences must be made up at the convenience of the instructor. Any student attending less than the required scheduled instructional time as noted on each syllabus will receive a "W" for the course if removed from the course on or before midterm. After the semester midterm, any student who has maintained a passing grade within a course will receive a 'WP' for the course when attending less than the required scheduled instructional time as stated on each course syllabus. If, however, the student has not maintained a passing grade, he or she will receive a 'WF' for the course. Tardy means arriving after the scheduled time for instruction to begin. Early departure means leaving before the end of the scheduled time. Three (3) tardies or early departures equal one (1) absence for the course involved.

TRADITIONAL ATTENDANCE ADDENDUM: *AUTT1021 Fall 2015 you are only allowed (3) absences for the semester.*

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 documented special needs may be provided with an individualized Instructional Plan with specifications for scheduled instructional time. It is the student's responsibility to inform the Special Needs Specialist as students and instructors are required to have documented evidence prior to receiving or allowing special accommodations. See the STC Catalog and Student Handbook, Student Affairs section for further information regarding special needs.

SPECIAL NEEDS ADDENDUM: *Students with disabilities who believe that they may need accommodations in this class based on the impact of a disability are encouraged to contact Jan Brantley, Room 2105 Swainsboro Campus, 478-289-2274, or Helen Thomas, Room 108 Vidalia Campus, 912-538-3126, to coordinate reasonable accommodations.*

MAKEUP GUIDELINES: Assignments must be completed on the specified date. All work must be turned in at the beginning of class on the specified due dates. If a student is absent from class, all work must be turned in at the beginning of class the next day upon returning to class. If this is not done, then a grade of zero will be given on the work. Failure to take tests on the scheduled day will result in a grade of zero for the test not taken. The makeup test must be taken the next day upon returning to class. The zero assigned for the missed test will be replaced with the grade the student makes on the makeup exam. **STUDENTS WILL ONLY BE ALLOWED TO TAKE ONE MAKEUP TEST DURING THE SEMESTER!!!!**

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).

ACCESS TO TECHNOLOGY: For information regarding Angel, the Information Delivery System (IDS), Student Owl Mail, and Banner Web, please see the IT Department link on STC's website at <http://www.southeasterntech.edu>.

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GRADING POLICY

Exams	35%
Lab Activities	30%
Assignments	10%
Finals	20%
<u>Work Ethics</u>	<u>5%</u>
	100%

GRADING SCALE

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

CSG 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.*

**AUTT 1021 – AUTOMOTIVE ELECTRICAL SYSTEMS
FALL SEMESTER 2015**

Date	Chapter / Lesson	Content	Assignments & Tests	*Comp. Area
WEEK 1				
AUG 17	39-40	General Electrical System Diagnosis	<ol style="list-style-type: none"> 1. Welcome & explanation of course & syllabus. 2. Begin reading CH's 39/40 3. Power Point/Lecture 4. Homework Assignment CH's 39/40; Answer Review questions and take Chapter quiz. 5. Begin Lab manual assignments 39/40 6. Weekly test and/or quizzes given at instructor's discretion. 	NATEF P1 1,2,a,b,c,d
WEEK 2				
AUG 24	41	General Electrical System Diagnosis	<ol style="list-style-type: none"> 1. Begin reading CH41 2. Power Point/Lecture 3. Homework Assignment CH 41; Answer Review questions and take Chapter quiz. 4. Begin Lab manual assignments 41 5. Weekly test and/or quizzes given at instructor's discretion. <p>Home Work & Lab Manual assignments CH's 39/40 (DUE</p>	NATEF P1 1,2,a,b,c,d
WEEK 3				

AUG 31	42	General Electrical System Diagnosis	<ol style="list-style-type: none"> 1. Begin reading CH 42 2. Power Point/Lecture 3. Homework Assignment CH's 42; Answer Review questions and take Chapter quiz. 4. Begin Lab manual assignments 42 5. Weekly test and/or quizzes given at instructor's discretion. 6. Home Work & Lab Manual assignments CH's 41 (DUE) 7. Begin Reading CH 43 	NATEF P1 1,2,a,b,c,d
WEEK 4				
SEPT 7	43	General Electrical System Diagnosis	<ol style="list-style-type: none"> 1. Continue reading CH 43 2. Power Point/Lecture 3. Homework Assignment CH's 43; Answer Review questions and take Chapter quiz. 4. Begin Lab manual assignments 43 5. Weekly test and/or quizzes given at instructor's discretion. 6. Home Work & Lab Manual assignments 7. CH's 42 (DUE) 	NATEF P1 1,2,a,b,c,d
WEEK 5				
SEPT 14	44	General Electrical System Diagnosis	<ol style="list-style-type: none"> 1. Continue reading 43 2. Power Point/Lecture 3. Homework Assignment CH's 43; Answer Review questions and take Chapter quiz. 4. Begin Lab manual assignments 43 5. Weekly test and/or quizzes given at instructor's discretion. <p>Home Work & Lab Manual assignments CH 43(DUE)</p>	NATEF P1 1,2,a,b,c,d
WEEK 6				
SEPT 21	45	General Electrical System Diagnosis	<ol style="list-style-type: none"> 1. Begin reading CH 45 2. Power Point/Lecture 3. Homework Assignment CH's 45; Answer Review questions and take Chapter quiz. 4. Begin Lab manual assignments 45 5. Weekly test and/or quizzes given at instructor's discretion. 6. Home Work & Lab Manual assignments CH 45 (DUE) 	NATEF P1 1,2,a,b,c,d
WEEK 7				
SEP 28	46	General Electrical System Diagnosis	<ol style="list-style-type: none"> 1. Begin reading CH 46 2. Power Point/Lecture 3. Homework Assignment CH's 46; Answer Review questions and take Chapter quiz. 4. Begin Lab manual assignments 46 5. Weekly test and/or quizzes given at instructor's discretion. 	NATEF P1 1,2,a,b,c,d

			6. Home Work & Lab Manual assignments 7. CH's 46 (DUE)	
WEEK 8				
OCT 5	47	General Electrical System Diagnosis	1. Begin reading CH 47 2. Power Point/Lecture 3. Homework Assignment CH's 47; Answer Review questions and take Chapter quiz. 4. Begin Lab manual assignments 47 5. Weekly test and/or quizzes given at instructor's discretion. 6. Home Work & Lab Manual assignments 7. CH's 39/40 (DUE)	NATEF P1 1,2,a,b,c,d
WEEK 9				
OCT 12	48	General Electrical System Diagnosis	1. Begin reading CH 48 2. Power Point/Lecture 3. Homework Assignment CH's 48; Answer Review questions and take Chapter quiz. 4. Begin Lab manual assignments 48 5. Weekly test and/or quizzes given at instructor's discretion. 6. Home Work & Lab Manual assignments CH's 39/40 (DUE)	NATEF P1 1,2,a,b,c,d
WEEK 10				
OCT 19	49	General Electrical System Diagnosis	1. Begin reading CH's 49 2. Power Point/Lecture 3. Homework Assignment CH's 49; Answer Review questions and take Chapter quiz. 4. Begin Lab manual assignments 49 5. Weekly test and/or quizzes given at instructor's discretion. 6. Home Work & Lab Manual assignments CH's 49 (DUE)	NATEF P1 1,2,a,b,c,d
WEEK 11				
OCT 26	50-51	Battery Diagnosis and Service	7. Begin reading CH's 50-51 8. Power Point/Lecture 9. Homework Assignment CH's 50-51 Answer Review questions and take Chapter quiz. 10. Begin Lab manual assignments 50-51 11. Weekly test and/or quizzes given at instructor's discretion. 12. Home Work & Lab Manual assignments CH's 49 (DUE)	NATEF P1 1,2,a,b,c,d
WEEK 12				
NOV 2	50-51	Battery Diagnosis and Service	13. Begin reading CH's 50-51 14. Power Point/Lecture 15. Homework Assignment CH's 50-51 Answer Review questions and take Chapter quiz.	NATEF P1 1,2,a,b,c,d

			<p>16. Begin Lab manual assignments 50-51</p> <p>17. Weekly test and/or quizzes given at instructor's discretion</p>	
WEEK 13				
NOV 9	50-51	Battery Diagnosis and Service	<p>18. Begin reading CH's 50-51</p> <p>19. Power Point/Lecture</p> <p>20. Homework Assignment CH's 50-51 Answer Review questions and take Chapter quiz.</p> <p>21. Begin Lab manual assignments 50-51</p> <p>22. Weekly test and/or quizzes given at instructor's discretion</p>	NATEF P1 1,2,a,b,c,d
WEEK 14				
NOV 16	50-51	Battery Diagnosis and Service	<p>23. Begin reading CH's 50-51</p> <p>24. Power Point/Lecture</p> <p>25. Homework Assignment CH's 50-51 Answer Review questions and take Chapter quiz.</p> <p>26. Begin Lab manual assignments 50-51</p> <p>27. Weekly test and/or quizzes given at instructor's discretion</p>	NATEF P1 1,2,a,b,c,d
WEEK 15				
NOV 23	50-51	Battery Diagnosis and Service	<p>28. Begin reading CH's 50-51</p> <p>29. Power Point/Lecture</p> <p>30. Homework Assignment CH's 50-51 Answer Review questions and take Chapter quiz.</p> <p>31. Begin Lab manual assignments 50-51</p> <p>32. Weekly test and/or quizzes given at instructor's discretion</p>	NATEF P1 1,2,a,b,c,d
WEEK16				
NOV 30	50-51	Battery Diagnosis and Service	Home Work & Lab Manual assignments CH's 49 (DUE	NATEF P1 1,2,a,b,c,d
WEEK 17				
DEC 10		FINALS		

Lessons may be changed at instructor's discretion due to time constraints and other reasons beyond control.

* Competency Areas:

Automotive Electrical/Electronics Systems Competency Areas:

1. General Electrical System Diagnosis
2. Electronics System Diag. and Repair
3. Electrical Systems Diag. and Repair
5. Electrical Units Diag. and Repair

4. Computer Systems Diag. and Repair

6. Misc. Electrical Components

General Core Competency Areas:

- a. The ability to utilize standard written English.
- b. The ability to solve practical mathematical problems.
- c. The ability to read, analyzes, and interprets information.
- d. The ability to utilize basic computer skills.

