AUMT 2311
Automotive Electronic Controls

Course Description And Intellectual Competencies:
A study of electrical principles, semiconductor and integrated circuits, digital fundamentals, microcomputer systems, and electrical test equipment as applied to automotive technology. May be taught manufacturer specific. (2 Lec, 4 Lab) (SCANS) Students will learn to manage time, work in teams, work with different cultures, interpret/communicate data, select equipment and tools, maintain /troubleshoot technologies, read, write, arithmetic/mathematics, speaking, listen, think logically, problem solving and show individual responsibility.

EDUCATIONAL OBJECTIVE AND LEARNING OUTCOMES:
Utilize safety procedures; apply service information; demonstrate digital multi-meter usage; measure electronic controller inputs/outputs; explain common electronic circuit failures; develop diagnostic strategy; and explain on-board computer network.

S.C.A.N.S.: Students will learn to manage time, work in teams, work with different cultures, interpret/communicate data, select equipment and tools, maintain /troubleshoot technologies, read, write, arithmetic/mathematics, speaking, listen, think logically, problem solving and show individual responsibility.

COURSE: AUMT 2311 - Section 43230  Automotive Electronic Controls
Class days Lecture: Mon. Thru. Thur. 7:00 am to 9:30 am.
Time Lab: Mon. Thru. Thur. 9:40 am to 1:00 pm
Date January 20, 2015 to February 12, 2015

Class location: T-building, Communication Arts and Applied Technologies - Rm. T-181


TOOLS: Eastfield College provides all necessary tools for your class work. Students who check out tools from the tool room will be financially responsible for their return in a clean and working condition.

T-TEN: All T-TEN students must show documentation that they have completed the Toyota on-line portion of this class. Failure to complete the on line classes by the due date will result in a failing grade for this class.

All T-TEN students must PASS 2 ASE exams in order to successfully complete the T-TEN program.
ATTENDANCE & PUNCTUALITY: You are expected to attend all classes and are fully responsible for your attendance and punctuality. 15 percent will be deducted from your daily grade at the beginning of class and/or after breaks for being tardy, and an additional 15 percent will be deducted from your daily grade every 30 minutes thereafter. You are considered tardy 1 minute after you are due in class. Attendance is calculated on a point system. Every tardy is worth 1 point; every absence is worth 3 points. If the student accrues between 6 and 9 points their final grade will be reduced by one letter grade: an A becomes a B, or a C becomes an F. If the student accrues 9 or more points they fail the class regardless of average. An excused absence is still counted as an absence and your grade will reflect the days missed. Students are responsible to coordinate any arrangement for makeup assignments or exams with their Instructor. Quizzes cannot be made up.

Students who are receiving any form of financial aid should check with the Financial Aid Office prior to withdrawing from classes. Withdrawals may affect your eligibility to receive further aid and could cause you to be in a position of repayment for the current semester. Students who fail to attend or participate after the drop date are also subject to this policy.

DROPPING A CLASS: (Drop Date: February 6, 2015 confirm with your fee receipt)
If at any time you wish to withdraw from this course with a grade of “W”, you must initiate that action yourself by going in person to Admissions, Counseling, or the Division Office and filling out the required forms. INSTRUCTORS CANNOT AND WILL NOT DROP A STUDENT FROM A CLASS. Failure to drop a class by this date will result in a performance grade based on the criteria contained in this syllabus.

SIX DROP ISSUE STATEMENT:
For students who enrolled in college level courses for the first time in the fall of 2007, Texas Education Code 51.907 limits the number of courses a student may drop. You may drop no more than 6 courses during your entire undergraduate career unless the drop qualifies as an exception. Your campus counseling/advising center will give you more information on the allowable exceptions. Remember that once you have accumulated 6 non-exempt drops, you cannot drop any other courses with a “W”. Therefore, please exercise caution when dropping courses in any Texas public institution of higher learning, including all seven of the Dallas County Community Colleges. For more information, you may access: https://www1.dcccd.edu/coursedrops.

RELIGIOUS HOLIDAYS/OBSERVANCES:
Students who will be absent from class for the observance of a religious holiday must notify the instructor in advance. Please refer to the college catalog section on Student Responsibilities.

FINANCIAL AID STUDENTS:
If you are receiving Financial Aid grants or loans, you must begin attendance in all classes. Do not drop or stop attending any class without consulting the Financial Aid Office. Changes in your enrollment level and failing grades may require that you repay financial aid funds. Failure to contact the instructor will result in your name being submitted to the Financial Aid Office as a “non-attendee.” All students receiving financial aid must open an Email account through NetMail. See directions in this syllabus for opening an Email account. Financial Aid Statement Students who are receiving any form of financial aid should check with the Financial Aid Office prior to withdrawing from classes. Withdrawals may affect your eligibility to receive further aid and could cause you to be in a position of repayment for the current semester. Students who fail to attend or participate after the drop date are also subject to this policy.

STUDENT E-MAIL:
Legal privacy issues prevent your instructor from discussing your work or your grades on commercial e-mail accounts. If you wish to send your papers as attachments to an e-mail (and the instructor permits it), or if you have a question about your grade, you must open a student e-mail account. The account is free. You may set it up by going to www.dcccd.edu and click on Student Services, Online Services, and Student NetMail. All students receiving financial aid must open a student NetMail account.

REPEATABILITY ISSUE:
Pending legislative action and DCCCD Board approval, effective for Fall Semester 2005, the Dallas County Community Colleges will charge a higher tuition rate to students registering the third or subsequent time for a
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course. All third and subsequent attempts of the majority of credit and Continuing Education/Workforce Training courses will result in higher tuition to be charged. Developmental Studies and some other courses will not be charged a higher tuition rate. Third attempts include courses taken at any of the Dallas County Community Colleges since the Fall 2002 semester. For complete information and updates, go to: http://www.dcccd.edu/ThirdCourseAttempt/.

EMERGENCY/INCLEMENT WEATHER PROCEDURE: In case of emergency or inclement weather conditions, Eastfield students should listen to KEOM-FM Radio Station (88.5) as the primary media source. In partnership with the Mesquite Independent School District, Eastfield College Administration will notify KEOM immediately after a decision is made to cancel classes on any given day of inclement weather or for emergency purposes. Students may also monitor other local radio and television stations. The earliest an announcement may be broadcast on KEOM Radio is 6 a.m. Students may also refer to the Eastfield College web page www.eastfieldcollege.com for the Inclement Weather announcement under the Features area of the front page. The announcement will be posted immediately following the decision to close the college.

PRINTING ON CAMPUS: Printing in the Computer Lab (L-108), Library, and Learning Assistance Center will cost 5 cents a page. Students must bring a $1.00, $5.00, $10.00, or $20.00 bill to the lab to create an account. Accounts must be created before attempting to print. No change is made in the lab. Once the money is in the bill acceptor, it cannot be retrieved. Cash refunds are not possible. Accounts stay active as long as the account has value.

CLASSROOM ENVIRONMENT: (describe your expectations related to drink/food in the classroom, cell phones, PDAs, laptops, etc, what about coming in late to the class? Leaving early? What are the consequences for such behavior?)
The following items are not allowed in class or lab.
Cell phones MP3 Players
Newspapers Lap Top Computers
Others as Deemed by instructor

OBTAINING YOUR GRADES AT THE END OF THE SEMESTER: Grade reports are no longer mailed. Convenient access is available online or by telephone. Just use your student identification number when you log in to e-Connect or call DCCCD Touch Tone Services. Web site address: http://econnect.dcccd.edu/. Telephone number: 972-613-1818.

INCOMPLETES: Due to the high percentage of grade based on lab experiences and the supervision required thereof incompletes will not be given. If situation warrants a grade change to a “W” will be given. Student is responsible for making arrangements with instructor.

SEXUAL HARASSMENT: Eastfield College has a zero tolerance policy on sexual harassment. All students shall report complaints of sexual harassment informally to the college Human Resources Director or formally to the Vice Chancellor of Educational Affairs.

GRADING CRITERIA/SCALE: In keeping with the policy and goals of the Dallas County Community College, 20% of each students grade will be determined based on class participation, attitude, and behaviors. Students are expected to show professionalism and respect to the instructors and each other. All assigned work must be turned in on time. Late work will not be accepted.

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<tr>
<td>Daily Grade</td>
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<td>Lab Sheets</td>
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<td>Exams</td>
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<td>Written Final</td>
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<td>Lab Final</td>
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Grading:
90-100 = A
80-89 = B
70-79 = C
0-69 = F
DAILY GRADING CRITERIA: Each class period (lecture or lab) is a separate grade with a maximum possible of 100pts. Points will be deducted from the maximum 100 pts for the following infractions.

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<td>Tardy…………………………………………………………………………-15pts</td>
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<td>Cell Phone Usage…………………………………………………………...-20pts</td>
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<td>Safety Glasses………….one incidence warning &amp;………………..-20pts</td>
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<td>second incidence removal from class &amp;…………..-100pts</td>
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<td>Participation…………………………………………………………………-10pts</td>
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<td>Class Disruption……………one incidence warning &amp;………………-10pts</td>
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<td>second incidence removal from class &amp;……………-100pts</td>
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<td>Driving Outside Compound.............................................-100pts for everyone in car</td>
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<td>Leaving Early...........................................................-100pts</td>
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<td>Professionalism..........................-10pts</td>
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<td>Other............................................................... up to - 100 pts</td>
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<td>Out of............................................................100pts</td>
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<td>Lab Sheets.............................................................20%</td>
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<td>Exams.................................................................20%</td>
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<td>Lab Final .............................................................30%</td>
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ADDITIONAL GRADE ELEMENTS: Your Instructor will also evaluate you on the following:
Ability to take constructive feedback.
Flexibility/adaptability.
Ability to work as a team.
Attitude; Respect for self and others.
Safety concerns.
Professional appearance/dress code
CODE OF CONDUCT: Failure to abide by this code may result in disciplinary action up to and including suspension, expulsion, and criminal prosecution!!!!

Theft will not be tolerated under any circumstances. Any and all cases of theft will be prosecuted to the fullest extent of the law.
The lab computer is for TIS, All Data, & Mitchell on Demand use ONLY. Any other use will result in removal from class and a grade of 0 for that class period.
Profane, Vulgar, or Offensive language will not be tolerated. Use of such language will result in removal from class and a grade of zero being issued for that class period.
The Speed Limit in the Compound is 5mph.
Students will not work in the lab until the instructor has completed a safety orientation.
Students will not enter the lab unless an instructor or lab assistant is present.
Students will conduct themselves in a professional manner at all times. Running and horseplay in the lab or classroom is dangerous, and will not be tolerated.
Absolutely no use of cellular telephones will be permitted during class. Turn all cell phones off when entering class. If it rings it will affect your grade negatively.
Destruction of school property will not be tolerated and will be prosecuted to the fullest extent of the law.
Students must be appropriately dressed. No loose clothing. No open shoes (sandals). Jewelry must be removed before operating equipment or working on vehicles.
SAFETY GLASSES must be worn at all times in the lab. Safety glasses must be Z87 rated or better. Dark tinted safety glasses are not acceptable. If you fail to bring them to class you will not be allowed to participate, and will receive a zero for that days grade. THE TOOL ROOM NO LONGER CHECKS OUT SAFETY GLASSES!!!!!
Do not lift more than 50 lbs.
Know the location and proper use of fire extinguishers.
Report all unusual or unsafe conditions.
Do not use any tool that is not in good working condition, or for any purpose other than that for which it was designed.
Report all injuries to the instructor immediately.
Do not attempt to operate any equipment until properly trained and authorized to do so.
Use drain pans for leaks and to catch drained fluids. Clean Up Spills Immediately!!!
All combustibles and flammables must be properly stored.
Welding, painting and other operations requiring specialized safety gear will not be done without using proper gear and in designated areas.
No tobacco use (includes chewing or snuff products) is allowed in classroom or lab area. There are designated areas outside the T-Building were tobacco use is allowed. ONLY, and only by persons of legal age.
All materials will be disposed of in proper receptacles, in accordance with EPA, state, and local mandates.
Anyone violating mandates is subject to disciplinary action.
All students are responsible for cleaning their work areas in the classroom and the lab. FAILURE TO DO SO WILL NEGATIVELY AFFECT YOUR GRADE.

This code is in addition to, not a replacement for the DCCCD code of conduct printed in the college catalog. [https://www1.dcccd.edu/cat0304/ss/code.cfm](https://www1.dcccd.edu/cat0304/ss/code.cfm)

The Code of Student Conduct, Student Grievance Procedure, Computer Use Policy, Computer Software Policy, Firearms Policy and Communicable Disease Policy are common to all the colleges of the Dallas County Community College District. Certain words in the policies and procedures have been changed to reflect a college
perspective; for instance, "District" may have been changed to "college." A complete listing of policies and procedures may be found in the DCCCD Policies and Procedures Manual in the college president's Office.

**Academic Dishonesty Policy:**
Scholastic dishonesty shall constitute a violation of these rules and regulations and is punishable as prescribed by college policies. Scholastic dishonesty shall include, but not be limited to, cheating on a test, plagiarism, and collusion. "Cheating on a test" shall include:
- Copying from another student's test paper.
- Using test materials not authorized by the person administering the test.
- All forms of academic dishonesty, including cheating, fabrication, facilitating academic dishonesty, plagiarism, and collusion.
- Collaborating with or seeking aid from another student during a test without permission from the test administrator.

Knowingly using, buying, selling, stealing, or soliciting, in whole or in part, the contents of an unadministered test.

The unauthorized transporting or removal, in whole or in part, of the contents of the unadministered test.
- Substituting for another student, or permitting another student to substitute for one's self, to take a test.
- Bribing another person to obtain an unadministered test or information about an unadministered test.

"Plagiarism" shall be defined as the appropriating, buying, receiving as a gift, or obtaining by any means another's work and the unacknowledged submission or incorporation of it in one's own written work.

"Collusion" shall be defined as the unauthorized collaboration with another person in preparing written work for fulfillment of course requirements.

**DISCIPLINE:** Any student violating this policy shall be subject to disciplinary sanctions including suspension, in accordance with The Code of Student Conduct. A "violation" means an act or omission which is contrary to a published college regulation or policy. Sanctions for violations of prohibited conduct for (1) through (6) may result in expulsion; for (7) through (20) may result in sanctions other than expulsion or suspension. Repeated or aggravated violations of any provision of this code may also result in expulsion or suspension or in the imposition of such lesser penalties as are appropriate.

"Aggravated violation" means a violation which resulted or foreseeable could have resulted in significant damage to persons or property or which otherwise posed a substantial threat to the stability and continuance of normal college or college-sponsored activities. (Source: [https://www1.dcccd.edu/cat0203/ss/code.cfm](https://www1.dcccd.edu/cat0203/ss/code.cfm))

If you engage in academic dishonesty related to any class, you will receive a failing grade on the test or assignment and a failing grade in the course. In addition, the case will be referred to the Dean for appropriate disciplinary action.

**AMERICANS WITH DISABILITIES ACT (ADA) ADA SERVICES:** If you are a student with a disability and/or special needs who requires ADA accommodations, please contact Eastfield College Disability Services Office at 972-860-8348. For any testing accommodation, you must go through the EFC Disability Services Office.

**Vehicle Work Guidelines:**

The following guidelines will be observed in order to work on student vehicles during lab.

Only an AUMT registered student may work on their vehicle in the lab.
The student must have a valid paid work order before starting work on the vehicle. Limit of 2 work orders per student per semester.

The work being performed must be related directly to the class and in line with the curriculum. Work must be able to be completed during that lab session. No heavy line work.
All vehicles will leave the compound at the end of the lab session. Any vehicle left in the lab or compound, even with a work order, will be towed at the owner’s expense without notice.
The tool room will not supply any consumable products. Example: no cleaners, no silicones or sealers, no parts, no oil, no atf, no anti freeze, no sand paper, etc.
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Any infractions will result in the instructor losing the privilege of their class being able to work on their vehicles for the remainder of the semester.

AUMT 2311 - Automotive Electronic Controls
Course Schedule

This is a hybrid course in the sense that class room presentations as well as internet assignments through Ecampus will be used in this class.

E-CAMPUS: It is imperative and the responsibility of the student to monitor Ecampus for assignments, quizzes and tests. Work to be completed outside of the classroom will be assigned and turned in via Ecampus.

eCampus login- http://ecampus.dcccd.edu/.
Can be accessed from the Eastfield College homepage www.eastfieldcollege.com
eCampus login- e +student id number

The student should keep in mind and prepare themselves accordingly, that some of the outlined material may not be covered in the classroom. The student will still be accountable for this material. The student must take charge of their learning. It is imperative that the student be prepared for class on a daily basis.

(All topics and assignments are in the Automotive Technology textbook unless otherwise noted)