

**AUMT 1391**  
**Hybrids, Electric Vehicles, Driver Assistance, and Infotainment.**

**COURSE DESCRIPTION:**

Prerequisite: AUMT 1307 or concurrent enrollment in AUMT 1307. This course will teach the fundamentals of Hybrid and Electric vehicle operation with basic understanding of diagnosis and High Voltage safety. This course will also include a general overview of common Driver Assistance features and infotainment systems.

**COURSE OVERVIEW:**

This course includes a substantial amount of hands-on learning activities, which cannot be rescheduled. Regular attendance is mandatory for successful completion of the course.

**REQUIRED MATERIALS:**

Automotive Laboratory Exercises: Tedd Talty  
Selected Manufacturer Specific Materials/Publications  
Selected Internet and Online Resource

**COURSE OBJECTIVES:**

- Identify different types of Hybrid vehicle configurations
- Identify major components of a Hybrid or Electric vehicle
- Show how to safely repair and diagnosis High Voltage components
- Have a basic understanding of common Driver Assistance systems
- Have a basic understanding of common Infotainment systems

**STUDENT CONTRIBUTIONS:**

Each student will spend at least 15 hours per week preparing for class. Students will also be required to complete and turn in any and all applicable “Web Based Courses” on or by the due date set by the instructor. This requirement must be met for the student to receive a passing grade for this course. Attendance is critical in this class.

**COURSE EVALUATION:**

15% - Participation & Attendance  
25% - Lab Grade  
25% - Quiz/Test Grade (Written or practical)  
35% - Final Test (Written or practical)

Final grade will be of letter type:

- A = 90 – 100 points
- B = 80 –89 points
- C = 70 –79 points
- F = Below 70 points
- I = Incomplete

**TENTATIVE COURSE SCHEDULE:**

**DISCLAIMER: The instructor reserves the right to amend this syllabus as necessary.**

<b>Week</b>	<b>Objective</b>	<b>Assignment</b>
<b>Week 1: Jan. 17</b>	Introduction and go over Syllabus	
<b>Week 2: Jan. 22 &amp; 24</b>	Emissions and Alternate fuels	
<b>Week 3: Jan. 29 &amp; 31</b>	Alternate Fuels	TC: Emissions Quiz due
<b>Week 4: Feb. 5 &amp; 7</b>	Hybrids	
<b>Week 5: Feb. 12 &amp; 14</b>	Hybrids	
<b>Week 6: Feb. 19 &amp; 21</b>	High Voltage Safety and Electrical Basics	TC: Alternate Fuels Quiz due
<b>Week 7: Feb. 26 &amp; 28</b>	Electric Vehicles	
<b>Week 8: Mar. 5 &amp; 7</b>	Electric Vehicles	
<b>Week 9: Mar. 12-16</b>	SPRING BREAK – NO CLASS / CAMPUS CLOSED	
<b>Week 10: Mar. 19 &amp; 21</b>	Electric Vehicles	TC: Hybrid Quiz due
<b>Week 11: Mar. 26 &amp; 28</b>	Electric Vehicles	
<b>Week 12: Apr. 2 &amp; 4</b>	Electric Vehicles	
<b>Week 13: Apr. 9 &amp; 11</b>	Driver Assistance	
<b>Week 14: Apr. 16 &amp; 18</b>	Infotainment	
<b>Week 15: Apr. 23 &amp; 25</b>	Infotainment	
<b>Week 16: Apr. 30 &amp; May. 2</b>	Review for Final Exam on Apr. 30	Take Final Exam and completion of Today's Class due on May. 2

## **SPRING 2018 IMPORTANT DATES:**

January 16 (T)	Classes Begin
January 29 (M)	12th Class Day
March 1-2 (R-F)	TCCTA/Professional Development Days for Faculty -- Regular work days for staff and administrators. Thursday classes and Friday day classes will not meet. Friday evening, Saturday and Sunday classes will meet.
March 5 (M)	Classes Resume
March 12-16 (M-F)	Spring Break -- College buildings and offices will be closed for the week.
March 19 (M)	Classes Resume
March 30 (F)	Holiday
April 2 (M)	Classes Resume
April 12 (R)	Last Day to Withdraw
May 7-10 (M-R)	Final Exams
May 10 (R)	Semester Ends
May 14 (M)	Last day for faculty to submit grades electronically through eConnect to the Registrar's Office

## **RECEIVING YOUR GRADES:**

End-of-semester grades will not be mailed to you by the college. To receive your grades you have two options: through the Internet or through the Telephone Touch-Tone System. Depending on your choice use the following directions:

### **ACCESS TO GRADES:**

1. Go to the Dallas County Community College website (<http://www.dcccd.edu>)
2. Next, look at the Online Services heading.
3. Under the Online Services heading click on eConnect-Register, Pay, Check Grades.
4. You are now on the student menu.
5. Next click on My Personal Information (this will expand the menu)
6. Now click on My Grades
7. Enter your seven-digit student ID (not your social security #)
8. Enter your password or if it is your first time to use the system enter your date of birth. (Example: Feb 16, 1965 021665)
9. Now select the grade type you wish to review (CR-Credit Grades) and click on submit.
10. Grades start with "oldest" term—now find yours.

## **STOP BEFORE YOU DROP:**

Did you know that under a new Texas law (TEC Section 51.907), if you drop too many classes without having an acceptable reason, **your GPA could be affected**? Be sure you understand how this law may affect you before you drop a class.

The new law applies to students who enroll in a Texas public institution of higher education (including DCCCD) for the first time in fall 2007 or later. Under this law, you may not drop more than six classes without an acceptable reason during your entire undergraduate career without penalty.

## 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.

## GRADING POLICY

### LAB GRADE:

- The lab average, which consists of 25% of your grade, is comprised of your progress each day in class.
- Your attitude
- Your ability to get along with others (Treating others with respect and working as a team)
- Your attire
- Your productivity with the days workstations
- Your ability to stay quiet when the instructor is talking or performing a demo
- Cussing is not allowed in class!

**NOTE:** You start every day with 100 points; as long as there are no problems with the items listed above you will end the day with 100 points for a daily lab grade.

**NOTE:** If any of the problems listed above occurs, then points will be subtracted from the 100 points that day. The amount of the points subtracted will be up to the sole discretion of the instructor. If the you have more point deductions than the 100 points for that day, then the points left over from that day of deductions will be subtracted from the next day.

- Since our classes total to 6 hours every week, missing one of our classes is like missing five regular college classes. **Therefore, anyone missing three days of an automotive course will fail the course no matter how good your quiz average and final test grades are.** (There are exceptions to every rule for instance a family member-getting ill or passing away, but you must call the instructor to let him know the situation.)
- **Fighting** will result in all the students involved in the altercation being sent home for two days. After the two day cool off period a meeting will be arranged with the instructor and the dean to decide weather the student will be allowed back into the ASSET program or put on a one-year suspension. (This includes fighting anywhere on campus property)
- **Racism or racial comments ARE NOT TOLLORATED!!!!!!**

### QUIZ GRADE:

- The quiz average, which consists of 25% of your grade, is comprised of adding all the quiz scores taken by the student during the course and dividing it by the number of quizzes given during the course. (This may include written quizzes, oral quizzes, hands-on quizzes, CBTs, and web based items.)

**NOTE: If you are late for a quiz, that is you are not in your seat when the instructor hands out the quiz, then you will take a zero for that quiz.** (Unless you have an excused tardy or absence that has been prearranged by the student with the instructor.)

**FINAL TEST:**

- The final test, which consists of 30% of your grade, is comprised of the final test of the course that may include a written or practical or both.

**NOTE: If you are late for the final test, that is not in your seat when the final test is handed out, then you will be able to take the test when you return, but fifteen points will be subtracted from your test for the tardiness.**

**NOTE: If you are absent for the final test you may not be able to make up the final test, therefore you will take a zero for the final test.** The zero will be averaged in with your quiz average and lab average. (If you have an excused absence, then you will be able to take the final exam on a later date. An excused absence is one that the instructor has been told about by the student.)

**YOU CANNOT PASS THIS CLASS IF:**

- You do not complete all required computer/web-based courses.
- You are absent for three or more days.

**Please see the following link for additional district policies:**

[http://www.brookhavencollege.edu/employees/faculty/Documents/BCSyllabus\\_Addendum.pdf](http://www.brookhavencollege.edu/employees/faculty/Documents/BCSyllabus_Addendum.pdf)