Course: AUMT 2334 Automotive Engine Performance Analysis II 3 Credit Hours
Section 41240 Honda PACT

Course Description And Intellectual Competencies: This is a WECM course number. (This is a 3 credit hour class.) Prerequisite, AUMT 2317. A study of diagnosis and repair of emission systems, computerized engine performance systems, and advanced ignition and fuel systems; and proper use of advanced engine performance diagnostic equipment. May be taught with manufacturer specific instructions. (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 Objectives and Learning Outcomes: Utilize appropriate safety procedures; explain the operation, diagnosis, and repair of emission control systems; describe the operation, diagnosis, and repair of computerized engine performance systems and advanced ignition and fuel systems; and demonstrate proper use of advanced engine performance diagnostic equipment.

Required Textbooks
2. eCampus login- http://ecampus.dcccd.edu/. Can be accessed from the Eastfield College homepage www.eastfieldcollege.com

Required Equipment and Material: Honda hands on modules will need to be purchased from the book store.
1. Students will use Honda Individual Skills Testing (IST) www.in.honda.com
2. Need a Dealer code, ID, Password and DPTS ID
3. All Honda Self Studies will be done using a computer.
4. Student needs a set of head-phones that will plug into a computer.
5. Student needs to buy a USB drive thumb drive. 1Gig or more.
6. Student needs to buy a three 2” ring binder for each class.
7. Some Hands-On Modules may be done at the Honda Training Center.
8. American Honda Motor Co. Inc
4529 W. Royal Lane
Irving, TX 75063

Computer Information
1. Please have a set of head phones that will plug into a computer.
2. Computer Lab is located in room L108

Class days Lecture/Lab Mon. & Tue. 7:30a.m to 5:55 pm

Class location: T-building, Career Technologies
Lecture Rm. T-115 and Lab T-117,T-182
Lab may be taught at American Honda Training Center
4529 Royal Lane
Irving, TX 75063
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. Student will be provided with a Honda tool list that they will need to purchase before being employed at the dealership.

Attendance: You are expected to attend all classes and are fully responsible for your ATTENDANCE & PUNCTUALITY. A tardy will be assessed at the beginning of class and after breaks. Being Late in excess of ½ hr. will drop a student’s grade by averaging time missed. 2 tardies will be counted equal to 1 absence. If it is necessary for you to miss a class you must first notify the Instructor to avoid receiving an unexcused absence for that class. Unexcused absences in 2 class periods will result in disciplinary action or a grade of “F”. An excused absence is still counted as absence and your grade will reflect the days missed. Make up session may be available at the Instructor’s discretion. Students are responsible to coordinate any arrangement with their Instructor.

Dropping A Class:  (Drop Date: December 10, 2015)
Withdrawal Policy
If you are unable to complete this course, it is your responsibility to withdraw formally. The withdrawal request must be received in the Registrar’s Office by semester’s drop date. Failure to do so will result in your receiving a performance grade, usually an “F.” If you drop a class or withdraw from the college before the official drop/withdrawal deadline, you will receive a “W” (Withdraw) in each class dropped. For more information about drop deadlines, refer to the current printed Credit Class Schedule, contact the Admissions/Registrar’s Office at 972-860-7167 (Room C119), or contact the division office.

STOP BEFORE YOU DROP
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

Repeating This Course: (Third Attempt to Enroll in a Course)
Effective for Fall Semester 2005, the Dallas County Community Colleges will charge additional tuition to students registering the third or subsequent time for a course. All third and subsequent attempts of the majority of credit and Continuing Education/Workforce Training courses will result in additional 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. See Third Attempt to Enroll in a Course at: http://www.dcccd.edu/thirdcourseattempt/

Developmental Courses
The Texas Success Initiative (TSI) is a statewide program designed to ensure that students enrolled in Texas public colleges and universities have the basic academic skills needed to be successful in college-level course work. The TSI requires assessment, remediation (if necessary), and advising of students who attend a public college or university in the state of Texas. The program assesses a student’s basic academic skills in reading, writing, and math. Passing the assessment is a prerequisite for enrollment in many college-level classes such as English 1301/1302, History 1301/1302, Math 1414, etc. Students who do not meet assessment standards may complete prerequisite requirements by taking developmental courses in the deficient area and passing them with a grade of C or higher. In some cases retesting will also be required. It is up to each student to be aware and informed about requirements that are subject to change. Additional information is available from the TSI Office. https://www1.dcccd.edu/cat0910/admiss/tsi.cfm?loc=4
Religious Holidays: Absences for observance of a religious holy day are excused. A student whose absence is excused to observe a religious holy day is allowed to contract with the instructor to take a make-up examination or complete an assignment within a reasonable time after the absence.

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 Net Mail. All students receiving financial aid must open a student NetMail account.

Eastfield College Email Policy Faculty and students must have and use a DCCCD account for all correspondence relating to academic coursework. For information on setting up a DCCCD student email account go to: http://www.dcccd.edu/netmail/home.html

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 Net Mail. See directions in this syllabus for opening an Email account.

Financial Aid Statement for Distance Learning Classes
If you are receiving Financial Aid grants or loans and are enrolled in a Distance Learning class, you must show participation in this class prior to the certification date by either e-mailing or contacting the instructor or logging on to eCampus. 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.

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.

Family Educational Rights and Privacy Act of 1974 (FERPA)
In compliance with the Family Educational Rights and Privacy Act of 1974 (FERPA), the College may release information classified as “directory information” to the general public without the written consent of the student. Directory information includes: (1) student name, (2) student address, (3) telephone numbers, (4) date and place of birth, (5) weight and height of members of athletic teams, (6) participation in officially recognized activities and sports, (7) dates of attendance, (8) educational institution most recently attended, and (9) other similar information, including major field of student and degrees and awards received. Students may protect their directory information at any time during the academic year. If no request is filed, directory information is released upon written inquiry. No telephone inquiries are acknowledged. No transcript or academic record is released without written consent from the student, except as specified by law.

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 Etiquette
“Students are expected to assist in maintaining a classroom environment that is conducive to learning. In order to assure that all students have the opportunity to gain from time spent in class, unless otherwise approved by the instructor, students are prohibited from engaging in any other form of distraction. Inappropriate behavior in the classroom shall result, minimally, in a request to leave class.”

Academic Honesty Statement
Scholastic dishonesty is a violation of the Code of Student Conduct. Scholastic dishonesty includes, but is not limited to, cheating on a test, plagiarism, and collusion. As a college student, you are considered a responsible adult. Your enrollment indicates acceptance of the DCCCD Code of Student Conduct published in the DCCCD Catalog at http://www1.dcccd.edu/cat0506/ss/code.cfm

Academic dishonesty includes, but is not limited to, cheating on tests, plagiarism and collusion. Cheating includes copying from another student’s test or homework paper, using materials not authorized, collaborating with or seeking aid from another student during a test, knowingly using, buying, selling, stealing, or soliciting the contents of an unadministered test, and substituting for another person to take a test. Plagiarism is 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 is the unauthorized collaboration with another person in preparing written work for fulfillment of course requirements. Academic dishonesty is a serious offense in college. You can be given a failing grade on an assignment or test, can be failed for the class, or you can even be suspended from college.

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.

Food and Drink Policy: Food, drinks, and tobacco products are prohibited in Eastfield College classrooms.

ADA Statement: Students with a physical, mental or learning disability who require accommodations should contact the college Disability Services Office in C237. Call 972.860.8348 or email efcdso@dcccd.edu. For more information: http://www.eastfieldcollege.edu/SSI/DSO/index.html

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

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.
*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.
Grading Criteria/ Scale: In keeping with the policy and goals of the Dallas County Community College, 20% of each student's 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. !!!!!!!ATTENTION!!!!!!! Failure to complete all assigned Honda modules will result in failure of the course.

<table>
<thead>
<tr>
<th>Component</th>
<th>Weight</th>
<th>Grade Range</th>
<th>Grade</th>
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<tbody>
<tr>
<td>Lecture</td>
<td>10%</td>
<td>90-100</td>
<td>A</td>
</tr>
<tr>
<td>Hands-On/Test</td>
<td>40%</td>
<td>80-89</td>
<td>B</td>
</tr>
<tr>
<td>Self Test/Test</td>
<td>20%</td>
<td>70-79</td>
<td>C</td>
</tr>
<tr>
<td>Portfolio</td>
<td>30%</td>
<td>0-69</td>
<td>F</td>
</tr>
<tr>
<td>Total</td>
<td>100%</td>
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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.

Obtaining Final Course Grades Using eConnect
Final Grade Reports are no longer mailed. Convenient access is available online at [www.econnect.dcccd.edu](http://www.econnect.dcccd.edu). Use your identification number when you log onto eConnect, an online system developed by the DCCCD to provide you with timely information regarding your college record. Your grades will also be printed on your Student Advising Report, which is available in the Admissions Office. Telephone number: 972-613-1818.

!!!!!!!ATTENTION!!!!!!!
Failure to complete all assigned Honda modules will result in failure of the course.

Computer usage will only be used for class work. IE Honda modules, Ecampus, Econnect. While in class students will not be surfing the internet, watching YouTube, playing games, watching tv shows, or any other such activity not related to class work. This relates to either classroom computers, lab computers, personnel computers, pda, or cell phone.

1\textsuperscript{st} violation- 20 points will be deducted from daily grade.
2\textsuperscript{nd} violation – student will be given a 0 for the day.
3\textsuperscript{rd} violation- student will be told to leave for the day.
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.

### Lecture Total Percentage Value 10%

- Attendance ................................................................. -100pts
- Late ................................................................. -15pts
- Cell Phone Usage ......................................................... -20pts
- Participation/Professionalism/Class Disruption ........ -10pts
- Other ................................................................. up to -100 pts
- Out of ..................................................................... 100pts

### Hands-On Test/ Lab/Lab Final Total Percentage Value 30%

- Late ................................................................. -15pts
- Safety Glasses ................................................................ -20pts
- second incidence removal from class & .................. -100pts
- Participation/Professionalism/Class Disruption .......... -10pts
- Driving Outside Compound .............................................. -100pts for everyone in car
- Spinning Tires ............................................................... -50pts
- Speeding ................................................................. -100pts
- Leaving Early .............................................................. -100pts
- Other ................................................................. up to - 100 pts
- Out of ..................................................................... 100pts

### Self Test/ Ch Test/ Quiz  20%

*No Self-Study sheet: student will receive a grade of an 80*

### Portfolio  30%

- Honda University subject test & module map ..................... 10pts
- Dynamic Curriculum Hands-On module record sheet .......... 10pts
- Self-Study grade sheet ......................................................... 20pts
  *No Self-Study sheet: student will receive a grade of an 80*

- Hands-On module sign off sheets ........................................ 40pts
- Portfolio not in the order listed above ..................................... 20pts

### Additional Modules  10%

The following may also affect your lecture and lab grade. Your Instructor will 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 concern; 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!!!!

1. Theft will not be tolerated under any circumstances. Any and all cases of theft will be prosecuted to the fullest extent of the law.
2. The lab computer is for TIS & Mitchell on Demand use ONLY. Any other use will result in removal from class and a grade of 0 for that class period.
3. 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.
4. The Speed Limit in the Compound is 5mph.
5. Students will not work in the lab until the instructor has completed a safety orientation.
6. Students will not enter the lab unless an instructor or lab assistant is present.
7. 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.
8. 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.
9. Destruction of school property will not be tolerated and will be prosecuted to the fullest extent of the law.
10. Students must be appropriately dressed. No loose clothing. No open shoes (sandals) or house shoes. Any footwear deemed unsafe or hazardous will not be allowed. Jewelry must be removed before operating equipment or working on vehicles.
11. 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 & the instructor will no longer loan any pair !!!!!
12. Do not lift more than 50 lbs.
13. Know the location and proper use of fire extinguishers.
14. Report all unusual or unsafe conditions.
15. Do not use any tool that is not in good working condition, or for any purpose other than that for which it was designed.
16. Report all injuries to the instructor immediately.
17. Do not attempt to operate any equipment until properly trained and authorized to do so.
18. Use drain pans for leaks and to catch drained fluids. Clean Up Spills Immediately!!!
19. All combustibles and flammables must be properly stored.
20. Welding, painting and other operations requiring specialized safety gear will not be done without using proper gear and in designated areas.
21. 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.
22. 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.
23. 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

Educational opportunities are offered by the Dallas County Community College District without regard to race, color, age, national origin, religion, sex or disability.

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

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.

Quizzes and exams will be given at the start of each day. All exams will be closed book. It is imperative that you check the announcement section on Ecampus for the requirements to take any test. Your weekly End of Chapter (EOC?) review/ASE questions and after class assignments must have been completed with at least a 50% score to qualify to take any test/quiz for which the material covers. ALL End of chapter review questions, multiple choice questions, ASE review questions and after class assignments are due the following Monday morning by 7:30 am. I.e. week one is due the Monday of week two. Should the school be closed ALL exams will be closed book unless otherwise stated.

!!!!!!!ATTENTION!!!!!!!
Failure to complete all assigned Honda modules will result in failure of the course.
Eastfield College
Course Schedule AUMT 2334
Automotive Engine Performance Analysis II

Quizzes and exams will be given at the start of each day. All exams will be closed book.

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<td>B. Classroom Manual</td>
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<td>II. Ch 84 Exhaust Gas Recirculation Systems</td>
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<td>B. Classroom Manual</td>
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   A. Classroom Manual 942 Read
   B. Classroom Manual 778 Multiple Choice Q

IV. Ch 86 Catalytic Converters
   A. Classroom Manual 948 Read
   B. Classroom Manual 778 Multiple Choice Q

V. Honda Self Study
   A. TWO-WIRE SENSOR INPUTS FEC66 11/30/15
   B. TRIBLESHOOT 3WIRE HIGH/LOW VOLT DTCS FEC67 11/30/15
   C. TROUBLESHOOT OUTPUT COMPONENT DTCS FEC68 11/30/15
   D. EGR SYSTEMS FEC52 12/1/15
   E. CATALYTIC CONVERTER OPERATION FEC54 12/1/15

VI. Lab Shop Manual
   A. Exhaust Gas Analysis 248 (A8-D-3)
   B. Diagnosis of Emission-Related Concerns 249 (A8-D-3)
   C. Evaporative Emission Controls Diagnosis 250 (A8-D-3)
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VII. HONDA Hands on modules
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     B. EGR OPERATIONS AND TESTING FES52 11/30/15
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VIII. Test Ch 87, 88
     All ASE Review Q. are due at the end of the exam.
     Job Sheets are due at the end of this week.

Wk# 3 Topics and Reading Assignments

I. Ch 83 Evaporative Emission Control Systems Lecture
   A. Classroom Manual 927 Read
   B. Classroom Manual 778 Multiple Choice Q

II. Honda Self Study
   A. ORVR OPERATION AND DIAGNOSTICS FEC77 12/7/15
   B. ENHANCED EVAP SYSTEM OPERATION FEC78 112/7/15
   C. DIAGNOSING TANK SIDE LEAKS FEC79 12/8/15
   D. DIAGNOSING CANISTER SIDE LEAKS FEC80 12/8/15
III. Lab Shop Manual

A. OBD II Diagnostic Trouble Codes
B. OBD II Connector Identification

IV. HONDA Hands on modules

A. FUEL TANK VAPOR RECOV SYS TEST
B. FUEL TANK SIDE EVAP SYSTEM LEAKS

V. Test Ch 82, 84, 85, 86

All ASE Review Q. are due at the end of the exam.
Job Sheets are due at the end of this week.

Wk# 4 Topics and Reading Assignments

I. Test Ch 63

II. Review for Final

III. Finish Honda Self Study Modules

A. LEV II/ZERO EVAP EMISSIONS
B. LEVII EVAP SYSTEMS
C. FUEL CAP WARNING SYSTEMS
D. TROUBLESHOOTING ENGINE MISFIRE

IV. Lab: Finish and job sheets

HONDA Hands on modules

A. T/S CANISTER SIDE EVAP SYSTEM LEAKS
B. TESTING & INSPECTING LEV II EVAP

V. Portfolio Due 12/14/15

VI. Final Exam

Written Exam Tuesday 12/15/15
Lab exam Tuesday 12/15/15

All Job Sheets must be turned in completed and will be graded. Honda modules, job sheets, and chapter questions not turned in by due date will receive a grade up to 80% when completed.

* Denotes the Honda modules that will be done for NATEF requirements but student will not receive Honda certification on.

!!!!!!!ATTENTION!!!!!!!
Failure to complete all assigned Honda modules will result in failure of the course.

Quizzes on lecture, videos, or course content may be given at any time. Quizzes can not be made up. Schedule may change as necessary.