



# Eastfield College

DALLAS COUNTY COMMUNITY COLLEGES

3737 Motley Drive  
Mesquite, Texas 75150

[www.efc.dcccd.edu](http://www.efc.dcccd.edu)

## Eligibility Requirements & Mandatory Orientation for Honda PACT Automotive Technology Program



The purpose of this program is to prepare students for entry-level employment as an automotive technician. This program reflects a building-block approach from simple to complex and includes theory, diagnosis, repair and maintenance of automobiles, including late model vehicles with electronic systems. Emphasis is placed on operational theory, practical skills and accepted shop procedures. (<http://www.dcccd.edu/cat0102/programs/autotech.htm#auto3>)

Eligibility: In order to be eligible to enroll into the Eastfield College Honda PACT Automotive Program, the student must complete the mandatory orientation program. This requires:

1. Completing an application for admission to Eastfield College.
2. Completing a degree/certificate plan request.
3. Meeting with an automotive advisor or faculty member.
4. Taking a college entrance examination (Accuplacer, THEA, MAPS, SAT, etc.). Student must score at a 091 level or higher **in reading and writing** and 090 in **math** to be eligible for an interview. If a student does not meet the minimum standards, it is strongly suggested they take developmental courses until they meet minimum standards.
5. Students must take and pass the Bennett Mechanical Comprehension test with a minimum score of 34.
6. **If student is not employed by a Honda or Acura dealership, he or she will have to apply and have an interview by the PACT coordinator (Elias Alba), Honda instructor (William Milam) or Division Advisor before registering in the Honda PACT program.**
7. If a student fails a Honda/Acura Dealer drug test, they will be removed from the Honda/PACT program.



## **EASTFIELD COLLEGE**

### **Mission Statement**

The mission of Eastfield College is to provide educational opportunities through high-quality instruction, services and programs in an environment conducive to student success in academic, technical, occupational, and continuing education. Our purpose is to develop responsible citizenship, to value diversity and cultural enrichment, and to be accountable and adaptable.

### **Goals**

#### **Eastfield College will:**

1. Provide access for all students and help them achieve their educational goals by offering a broad range of instructional and student support services including counseling and guidance
2. Assist students in obtaining freshman- and sophomore-level knowledge and skills leading to employment, and/or an associate degree and/or prepare them for transfer to baccalaureate degree- granting institutions
3. Assist students in obtaining knowledge, skills, and services necessary to obtain a certificate and/or applied associate degree and to succeed in technical-occupational careers
4. Provide literacy, developmental education, and English for speakers of other languages programs to prepare students to participate successfully in further academic and career opportunities
5. Assist students seeking training for advancement in their current field, training for entry-level job skills, retraining for employment or personal enrichment through comprehensive continuing education and workforce training
6. Develop education partnerships with business, industry, government entities, and civic organizations to enhance economic development
7. Provide all students with personal, social, and cultural enrichment opportunities and encourage them to exercise their rights and responsibilities as citizens
8. Employ a qualified, diverse staff and provide opportunities for professional development for staff members to enhance their skills and abilities
9. Continuously study, analyze, and appraise the college's purposes, procedures, programs and organization to enhance institutional effectiveness.

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

# EASTFIELD COLLEGE

## Automotive Technology Program

In addition to Eastfield College's mission statement and goals, the Automotive Technology Program at Eastfield College goal is to provide the student with a solid education in automotive service and repair along with a positive rewarding experience while they are attending the Eastfield College Automotive Program. In order to achieve these goals, and for students to be successful, we require our students to have discipline, excellent attendance, respect for self and others, excellent personal and work ethics, safety consciousness, and to be a participating member of our student body.

The Eastfield College Automotive Technology Program is NATEF/ASE Certified. We strive for automotive excellence and expect our students to do the same. Our endeavor is to graduate the best-qualified, automotive repair technicians, as required by industry.



The Eastfield College Automotive Technology Program is sponsored by Honda/Acura Professional Automotive Career Training (PACT) program. Due to Honda's partnership with Eastfield College, our students are able to diagnose and repair the latest vehicles. Honda donates cars, equipment, training, and promotional items to the program. We provide placement assistance for those students who strive for excellence in their personal and work habits and present a positive attitude.

Name	Title	Office	Phone
CAAT Division	OFFICE	T-143	972-860-7143
Gerald Kozlowski	CAAT Division Dean	T-143	972-860-7143
Johnnie Bellamy	Associate Dean	T-142	972-860-7619
Sue Byrd, Dr.	Academic Advisor	T-141	972-860-7671
Curt Jenkins	Automotive Director	T-143E	972-860-7128
Elias Alba	Honda Coordinator	T-148	972-860-7053
William Milam	Honda Professor	T-156	972-860-7295

# SAMPLE SYLLABUS

## Eastfield College

### Automotive Technology

*Course: AUMT 1305. Introduction to Automotive Technology*

#### **Course Description and Intellectual Competencies:**

An introduction to the automotive industry including automotive history, safety practices, shop equipment and tools, vehicle subsystems, service publications, fasteners, professional responsibilities, and automotive maintenance. **Will be taught manufacturer specific.**

(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.

#### **Required Textbooks: Automotive Technology Principles, Diagnosis, and Service by Halderman.**

1. Students will use Honda Individual Skills Testing (IST) [www.in.honda.com](http://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. All Training Center Hands-On Modules will be done at the Honda Training Center

#### **Educational Objectives and Learning Outcomes:**

Utilize appropriate safety procedures; demonstrate familiarity with historical development and career information on the automotive industry; demonstrate safe, professional, and responsible work practices; identify and demonstrate the proper use of shop equipment and tools; identify and describe functions of vehicle subsystems; demonstrate the use of service publications; identify various automotive fasteners used in industry; and perform automotive maintenance.

#### **Lab Recommended**

**Class days**      **Lecture/Lab** Mon. & Tue. 7:30a.m to 5:45 p.m.  
**Time**

*Class location: T-building, Communication Arts and Applied Technologies*  
*Lecture Rm. T-160 and Lab T-117*  
*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.

# SAMPLE

## Course Schedule AUMT 1307

### Automotive Electrical Systems

**Date: Sept. 22 , thru Sept. 23**

<b><u>Wk# 1</u></b>	<b><u>Topics and Reading Assignments</u></b>	<b><u>Page#</u></b>	<b><u>Activities</u></b>
I.	Syllabus And PACT Program		Lecture
II.	S/P2 Safety & Pollution Prevention Mechanical Pollution Prevention	<a href="http://www.sp2.org/">http://www.sp2.org/</a>	Test
III.	Honda Self Study		
	A. Understanding Electricity	ELC20	Lecture/Computer
	B. Understanding Ohm's Law	ELC24	Lecture/Computer
	C. Basic Circuit Components	ELC21	Lecture/Computer
	D. Basic Electrical Tools	EBC01	Lecture/Computer
	E. Using a Digital Multi-Meter	EBC03	Lecture/Computer
	F. Basic Circuit Types	ELC22	Lecture/Computer
IV.	Lab (Eastfield)		
	A. Applying Ohm's Law (Test)	ELS24	Hands-On
	B. Building a Basic Circuit (Test)	ELS22	Hands-On
	C. Measuring Available Voltage (Test)	ELS30	Hands-On
	D. Measuring Resistance (Test)	ELS31	Hands-On

**Date: Sept. 29, thru Sept. 23**

<b><u>Wk# 2</u></b>	<b><u>Topics and Reading Assignments</u></b>	<b><u>Page#</u></b>	<b><u>Activities</u></b>
I.	Honda Self Study		
	A. Electro-magnetic Fields.	ELC19	Lecture/Computer
	B. Basic Electrical Faults	ELC25	Lecture/Computer
	C. How to Measure Voltage	ELC30	Lecture/Computer
	D. How to Measure Resistance	ELC31	Lecture/Computer
	E. How to Measure Current	ELC32	Lecture/Computer
	F. How to Measure Voltage Drop	ELC33	Lecture/Computer
	G. Using the ETM	ELC23	Lecture/Computer
II.	Lab (Eastfield)		
	A. Measuring Current (Test)	ELS32	Hands-On
	B. Measuring Voltage Drop (Test)	ELS33	Hands-On
	C. Circuits and Using the ETM	ELS27	Hands-On
	D. Identify Faults Using Pwr/Gnd Schematics (Test)	ELS29	Hands-On
	E. Analyzing ETM Schematic	EL41	Hands-On

**Date: Oct. 6, thru Oct. 7**

**Wk# 3 Topics and Reading Assignments**

	<b><u>Page#</u></b>	<b><u>Activities</u></b>
I. Honda Self Study		
A. Reading a Circuit Schematic	ELC27	Lecture/Computer
B. Power Distribution	ELC28	Lecture/Computer
C. Ground Distribution	ELC29	Lecture/Computer
D. Battery Construction and Safe Handling	ELC10	Lecture/Computer
E. Terminal Repair Procedures	ELC45	Lecture/Computer
II. Eastfield and Honda Training Center (Oct. 7)		
A. Testing and Maintaining the Battery (Test)	ELS10	Hands-On
B. Servicing Multi-Pin Elec. Connectors (Test)	EL43	Hands-On
C. Replace Damaged Terminal (Test)	EL44	Hands-On

**Date: Oct. 13, thru Oct. 14.**

**Wk# 4 Topics and Reading Assignments**

	<b><u>Page#</u></b>	<b><u>Activities</u></b>
I. Honda Self Study		
A. Control Unit Initiation and Key Off	ELC15	Lecture/Computer
II. Addition Modules at Honda Training Center (Oct 14)		
A. Getting started with the HDS (Test)	EBS08	Hands-On
B. HDS Tablet Operation	EBS10	Hands-On
C. Prelim.DTC Diagnostic Procedures	EBS12	Hands-On
IV. Final Exam (Portfolio)		

# Course Sequence for PACT students

## Each course is four weeks long

1<sup>st</sup> year

Semester I

AUMT-1305 Introduction to Automotive  
AUMT-1307 Automotive Electrical Systems  
AUMT-1310 Automotive Brake Systems  
AUMT-1316 Automotive Suspension & Steering System

Semester II

AUMT-2311 Automotive Electronics Controls  
AUMT-2321 Automotive Electrical Lighting and Accessories  
AUMT-2325 Automatic Transmission & Transaxle  
AUMT-2332 Automatic Transmission & Transaxle  
AUMT-2380 Coop Education

Summer I

AUMT-1306 Automotive Engine Removal & Installation

Summer II

AUMT-1319 Automotive Engine Repair

2<sup>nd</sup> year

Semester III

AUMT-2313 Manual Drive Train & Axles  
AUMT-1345 Automotive Heating & A/C  
AUMT-2317 Engine Performance Analysis I  
AUMT-2334 Engine Performance Analysis II  
AUMT-2381 Coop Education

Semester IV

Elective (Example Speech or Computer)

Finish with four Certificates and Honda course work.

- Chassis Service Technician
- Electronics and Climate Controls Technician
- Engine Repair and Performance Technician
- Transmission Service Technician

## Price of Tuition for PACT Students

Course	Credit Hours	*In District Price \$41 per credit hour	*Out of District Price
AUMT 1305 Introduction to Automotive	3	\$123.00	\$228.00
AUMT 1307 Automotive Electrical Systems	3	\$123.00	\$228.00
AUMT 1310 Automotive Brake Systems	3	\$123.00	\$228.00
AUMT 1316 Automotive Suspension & Steering System	3	\$123.00	\$228.00
AUMT 1306 Automotive Engine Removal & Installation	3	\$123.00	\$228.00
AUMT 1319 Automotive Engine Repair	3	\$123.00	\$228.00
AUMT 2311 Automotive Electronics Controls	3	\$123.00	\$228.00
AUMT 1345 Automotive Heating & A/C	3	\$123.00	\$228.00
AUMT 2317 Engine Performance Analysis I	3	\$123.00	\$228.00
AUMT 2334 Engine Performance Analysis II	3	\$123.00	\$228.00
AUMT 2321 Automotive Electrical Lighting and Accessories	3	\$123.00	\$228.00
AUMT 2313 Manual Drive Train & Axles	3	\$123.00	\$228.00
AUMT 2325 Automatic Transmission & Transaxle	3	\$123.00	\$228.00
AUMT 2332 Automatic Transmission & Transaxle	3	\$123.00	\$228.00
AUMT 2380 Coop Education	3	\$123.00	\$228.00
AUMT 2381 Coop Education	3	\$123.00	\$228.00
Elective (Example Speech or Computer)	4	\$123.00	\$228.00
<b>Total for Automotive Classes</b>	<b>48</b>	<b>\$2,091.00</b>	<b>\$3,876.00</b>

If there is not enough Honda and Acura curriculum to meet NATEF standards, students will have to buy a generic book that will supplement their requirements. (Approx. \$130.00)

\* Tuition is based on DCCCD Board of Director's approval amount and may be subject to change in any program year.

# Automotive Technology Orientation Check Sheet

Student \_\_\_\_\_

Student ID# \_\_\_\_\_

Phone # \_\_\_\_\_

Each item must be completed and signed off by an advisor before being able to sign up for automotive classes.

1. Meet with CAAT Division advisor or Automotive Faculty to discuss program.

\_\_\_\_\_ Advisor, Instructor

2. Receive Automotive Technology Mandatory Orientation packet.  YES  NO

3. Fill out the following forms and turn into Admissions, C119, in C Bldg.  
Application for Admission  YES  NO

Degree/Certificate Plan Request  YES  NO

4. Go to Dr. Sue Byrd in T-141 or Johnnie Bellamy in T-142 for referral for Accuplacer or THEA. **The scores from the test will determine eligibility to enroll in the automotive program. All students applying to enroll in Eastfield College's Automotive program must test unless previously transcript scores are available. Student must score at a 091 level or higher in reading and writing and 090 in math to be eligible for an interview.**

Reading ----- YES  NO Writing ----- YES  NO Math ----- YES  NO

5. Go to C-114, Assessment Testing Center; take the Bennett Mechanical Comprehension test. Minimum score of 34 to be accepted into the program. Score \_\_\_\_\_  YES  NO

Bring all paperwork and test results back division office and make an appointment with Elias Alba, William Milam or division advisor.

All paperwork and test results completed.  YES  NO

6. Does the student have a valid Social Security Number?  YES  NO

7. Does the student have a valid driver license?  YES  NO

8. Does the student have transportation to the Honda Training Center in Irving everyday?  YES  NO

9. Can the student pass a drug test?  YES  NO

Note: If a student fails a Honda/Acura Dealer drug test, they will be removed from the Honda/PACT program

10. Can the student view a computer screen for hours? YES NO

11. Is the goal of the student to be employed by Honda or Acura? YES NO

12. Student has read the Honda PACT Automotive Technology Program orientation packet and understands the requirements of the Honda PACT program at Eastfield College.

Student signature: \_\_\_\_\_ Date: \_\_\_\_\_

13. Student eligible to enroll in automotive classes. YES NO

Automotive Faculty/Advisor \_\_\_\_\_ Date \_\_\_\_\_ Time \_\_\_\_\_

14. Classes enrolled :