

DE ANZA COLLEGE AUTOMOTIVE TECHNOLOGY AT60H

Auto 60H

Advanced Drivability and Onboard Diagnostics

4.5 UNITS Spring Quarter 2016

General Information:

Instructor: John Walton
 Office Number: (408) 864-8508
 Email: waltonjohn@fhda.edu
 Web site: <http://faculty.deanza.fhda.edu/waltonjohn>
 Dates: Monday and Wednesday
 Hours: 6:00 P.M. to 10:10 P.M.
 Office hours: 5:00 P.M. to 6:00 P.M. Monday-Thursday
 Office location: #E14d in E1 Automotive technology building



Advisories:

English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273; Mathematics 212 or equivalent; Automotive Technology 50A, 50B, 60, 60A, 60B, 60C, 60D and 60E.

Course Description:

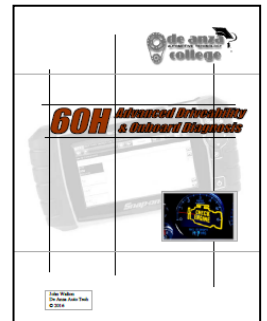
- Survey of onboard diagnostic systems from 1980 to the present
- Advanced electronic diagnostic procedures using an automotive scan tool
- Preparation for Automotive Service Excellence (ASE) examination in Areas A6, A8, and L1
- Diagnostic flow charts
- Code setting parameters
- Advanced OBDII
- Global OBDII & Proprietary OBDII
- OBDII Monitors, Freeze Frame, Mode 6, Mode 8
- Advanced EVAP diagnosis
- J2534 Flash programming technology
- Preparation for ASE A8 & L1.

Student Learning Outcome: Student will:

- Describe the onboard self-test and diagnostic capabilities of various manufacturers' vehicle control systems

Text and References:

60H *Advanced Drivability and Onboard Diagnostics*
 Printed Course Syllabus (available from campus bookstore)
 All Data, Factory Web Information Sources



Required Equipment:

Safety glasses

Grading System:

Graded weekly quizzes, worksheets, participation,
 & comprehensive final
 Highest class score = 100%.

Missing Assignments:

The student will complete any missing assignments within
 7 days. **Late assignments are subject to 1 grade penalty**
 2 points will be deducted from **ALL** late assignments.

Attendance:

Students will be dropped for exceeding 2 absences.

Adds:

You must add before the current college deadline, late adds are not allowed.

Drops:

If you stop attending the class you will receive an F unless you drop before the current college drop date. Adding or dropping a class is your responsibility.

A+	97 - 100%
A	94 - 96%
A-	92 - 93%
B+	87 - 91%
B	83 - 86%
B-	80 - 82%
C+	75 - 79%
C	67 - 74%
D+	60 - 66%
D	55 - 59%
D-	50 - 55%
F	0 - 49%

Attendance Policy

Your attendance is an essential part of this course. By enrolling in this class, you are committing to attend *promptly*. Make-up exams and worksheets will only be available for one week following an absence. If you are going to miss a class or know that you will be late, you must notify me as soon as possible. It is your responsibility to get yourself caught up.

Disruptive Behavior

A. DeAnaza College will enforce all policies and procedures set forth in the *Standards of Student Conduct* (see web site, schedule or catalog). Any student disrupting a class may be asked to leave that class. Disruption includes cell phone usage, text messaging and talking to other students during lecture. After administrative review, student may not be allowed to return to class. <http://www.deanza.edu/specialed/dish/appendix/conducts.html>

B. No cell phone interruptions – turn cell phones off or to vibrate mode during class.

C. No eating, drinking sodas, or chewing tobacco in this classroom.

Disability Support Programs & Services (DSP&S)

If you need any classroom accommodations or services due to a disability, please see me after class. A verification of your disability must be on file with the college. For information on learning disabilities, call or visit the Educational Diagnostic Center, Learning Center West 110, 408-864-8839. For information on others disabilities, call or visit Disability Support Services, Seminar 2A, 408-864-8753.

Register on line or get grades on line at: www.deanza.edu/

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Safety Policy

Safety glasses AND shoes are to be worn at all times during any lab work or demonstration.

- **Financial Aid:** Lisa Mandy: Director (408) 864- 8403 mandylisa@fhda.edu
- **Certificates and degrees:** <http://www.deanza.edu/counseling/pdf/degrees/auto-technician.pdf>
- **Scholarship Information available in financial aid or at**
<http://www.deanza.edu/financialaid/scholarship.html>

Course CRN	00093
Credit Hours	4.5
Last Day for Adds	April 05, 2016
Last Day for Refund	April 05, 2016
Last Day for Drops w/o W	April 07, 2016
Last Day for Drops	May 03, 2016

Suggested Auto Tech Schedule

1st Year Engine Performance			
	Fall Quarter	UNITS	Days
12 weeks	Auto 60 Automotive Electrical Systems	9	M/W
	Winter Quarter		
1st 6 weeks	Auto 60A Electrical Schematic Diagnosis	4.5	M/W
2nd 6 weeks	Auto 60B Automotive Electronics	4.5	M/W
12 weeks	Auto 53A Automotive Mechanisms	3	T/TH
	Spring Quarter		
12 weeks	Auto 60C Automotive Ignition, Fuel, and Emission Systems	9	M/W
First year auto tech courses are available Monday and Wednesday Evenings from 6PM to 10:15PM			
2nd Year Advanced Engine Performance			
	Fall Quarter	UNITS	Days
1st 6 weeks	Auto 60 D Ignition Analysis and Oscilloscope Diagnosis	4.5	T/TH
2nd 6 weeks	Auto 60E Automotive Fuel Injection	4.5	T/TH
	Winter Quarter		
1st 6 weeks	Auto 60F No Start Diagnosis	4.5	T/TH
2nd 6 weeks	Auto 60G Advanced Automotive Scan Tool Diagnosis	4.5	T/TH
	Spring Quarter		
1st 6 weeks	Auto 60H Advanced Drivability and Onboard Diagnosis	4.5	T/TH
2nd 6 weeks	Auto 60J Advanced Lab Scope and Waveform Diagnosis	4.5	T/TH
Second year auto tech courses are available Tuesday and Thursday Evenings from 6PM to 10:15PM			

Degrees and
Certificates

Auto 53A, 60, 60A, & 60B
Certificate of Achievement
**Basic Engine
Performance Technology**
(21 Units, GE not required)

Auto 60C, 60D, & 60E
Certificate of Achievement
**Intermediate Engine
Performance Technology**
(18 units, GE not required)

Auto 60F, 60G, 60H, & 60J
Certificate of Achievement
**Advanced Engine
Performance Technology**
(18 Units GE not required)

Complete all of the 57 units above to receive:
**Certificate of Achievement Advanced
Performance Technology ***
* Math and English Eligibility Requirements

Add: GE (31-42 units) and receive:
A.S. Degree
**Advanced Engine
Performance Technology**

Certificate of Achievement Advanced:
Advanced Engine Performance Technology

Associate of Science Degree:
Advanced Engine Performance Technology