

DE ANZA COLLEGE AUTOMOTIVE TECHNOLOGY 50A GREENSHEET

AUTO 50A CRN 00214

INTRODUCTION TO AUTOMOTIVE PRINCIPLES

4.0 Units Fall 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: 10:30AM to 12:30P.M.
Office hours: 5:00 P.M. to 6:00 P.M. Monday-Thursday
Office location: #E14d in E1 Automotive technology building



Course Description:

A selective study of the automobile's engine systems. Knowledge and skills necessary for basic repair, maintenance, and troubleshooting of today's engine systems. May be used to fulfill the prerequisite to the Automotive Technology Program.

Advisories:

EWRT 211 & READ 211 (or LART 211), or ESL 272 & 273; MATH 212 or equivalent.

Automotive Technology Website at: autotech.deanza.fhda.edu

Course Objectives

- Explain basic internal combustion engine operation.
- Describe engine lubrication systems
- Describe the operation of the various internal engine support systems; such as lubrication, cooling, etc.
- Calculate the relationship between voltage, amperage, and ohms
- Explain the operation of the various electrical components that support the operation of the internal combustion engine.
- Describe the components and their operation as related to the various fuel and ignition systems.

Student Learning Outcomes;

Student will be able to answer correctly, selected questions on the final exam concerning engine theory, lubrication, and basic electrical fundamentals.

Text and References:

Gilles, Tim. "Automotive Service". 4th or 5th Edition, Thomson/Delmar 2012. Albany, New York.
Text: Available at the campus bookstore
All Data, Shop Key.

Required Equipment:

Safety glasses

Grading System:

Graded quizzes every two weeks, worksheets, participation, & comprehensive final
Highest class score = 100%.

Final Exam

Scheduled for the last class meeting

Missing Assignments:

days.

The student will complete any missing assignments within 7

Attendance:

Adds:

Late assignments are subject to 1 grade penalty
2 points will be deducted from **ALL** late assignments.
Students will be dropped for exceeding 2 absences.
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 the classroom.

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

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. <http://www.deanza.edu/specialed/dss/>

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.

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>

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

Course CRN	00214
Credit Hours	4.0
Max Enrollment	40
Accounting Method	Weekly (W)
Last Day for Adds	October 08, 2016
Census Date	October 10, 2016
Last Day for Refund	October 09, 2016
Last Day for Drops w/o W	October 09, 2016
Last Day for Drops	November 18, 2016

De Anza Automotive Technology
EVENING PROGRAM DEGREES

&
CERTIFICATES

CORE AUTO CLASSES	
Basic Engine Performance Technology Certificate of Achievement 21 Units	
Auto 53A Auto Mechanisms	3 units
Auto 60 Auto Electrical Systems	9 units
Auto 60A Electrical Schematic Diagnosis	4.5 units
Auto 60B Automotive Electronics	4.5 units
Choose Any or All of Four Separate Degree Paths	

Intermediate Engine Performance Technology Certificate of Achievement
18 Units

60C Automotive Ignition, Fuel, and Emissions Systems 9 units
60D Ignition Analysis and Oscilloscope Diagnosis 4.5 units
60E Automotive Fuel Injection 4.5 units

Advanced Engine Performance Technology Certificate of Achievement
18 Units

60F No Start Diagnosis 4.5 units
60G Advanced Automotive Scan Tool Diagnosis 4.5 units
60H Advanced Drivability and Onboard Diagnosis 4.5 units

60J Advanced Lab Scope and Waveform Diagnosis 4.5 units

Complete all 36 units and qualify for:
**Certificate of Achievement Advanced*
Advanced Engine Performance Technology**

Automotive Chassis Technology Certificate of Achievement
18 Units

Auto 61A Automotive Brake Systems 4.5 units
Auto 61B Electronically Controlled Brake Systems 4.5 units
Auto 62A Steering Suspension and Alignment 9 units

Auto 62B Advanced Wheel Alignment 9 units
**Complete all 27 units to qualify for:
Certificate of Achievement Advanced*
Automotive Chassis Technology**

Automotive Powertrain Technology Certificate of Achievement
22.5 Units

Auto 63 Automotive Transmissions and Transaxles 9 units
Auto 63D Transmission Diagnostic and Repair Techniques 4.5 units
Auto 63A Advanced Manual Drive Train 9 units

**Complete all 22.5 units and qualify for:
Certificate of Achievement Advanced*
Automotive Powertrain Technology**

Automotive Machining and Engine Repair Technology Certificate of Achievement
18 Units

Auto 64 Automotive Machining 9 Units
Auto 64 HP Advanced Automotive Machining 9 units

**Complete all 18 units and qualify for:
Certificate of Achievement Advanced*
Automotive Machining and Engine Repair Technology**

***Certificate of Achievement Advanced**
Requires: Eligibility for EWRT 1A or ESL 5 and eligibility for MATH 114
Earn up to ten College Certificates!

Add: GE General Education (31-42 units) and receive your **A.S. Degree***
*Earn up to four A.S. Degrees!