IMPERIAL VALLEY COLLEGE Fall 2014

Auto130

Automotive Electronics

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oom: 1103	
Recognize the effect of electronics on automotive advances	
Give two methods of rating battery performance	
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Explain the principal of electromagnetic induction

Name the major components of an alternator

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Give quick checks for solving charging system problems

Explain how the different types of ignition systems operate

RESPONSABILITIES:

Each student is required to comply with the schedule established by Imperial Valley College and the Automotive Program. Students should attend class each day class is in session. If for reasons a student is absent s/he is responsible for making up any missed work. It is recommended that students call the office to inform the instructor if s/he is ill or bring a doctor's release not

3 tardies = 1 absence

4 absences = Student will be dropped or given an "IN" INCOMPLETE

WELCOME STUDENTS WITH DISABILITIES

Students with a documented disability who may need additional accommodations should notify the instructor and or The Disabled Student Program and Services (DSP&S) office as soon as possible. The DSP&S office is located in room 2117 in The Health Sciences Building or you may contact them at (760) 355-6312.

BASIC RULES AND SHOP SAFETY

No music allowed in the auto shop

No parking in front of the gate

No work should be done without instructor's permission

No parking inside the shop during lecture time

No long breaks (should be 10 minutes per hour class)

Each student should clean the work area

The student must not leave early without instructor's permission

No cell phone during class sessions

No helpers or visitors during lab activities

Safety glasses required

FALL 2014 IMPORTANT DATES

- Aug. 18 Fall 2014 Classes Begin
- Sept. 1 Labor Day (Campus Closed)
- Nov. 11 Veterans Day (Campus Closed)
- Nov. 24-26 No classes (Campus Open)
- Nov. 27-29 Thanksgiving (Campus Closed)
- Dec. 13 Fall 2014 Term Ends
- Dec. 15-19 No Classes (Campus Open)
- Dec. 22-31 Winter Recess (Campus Closed)

INSTITUTIONAL STUDENT LEARNING OUTCOMES (ISLO)

Student Learning Outcomes are written statements that represent faculty and departmental learning goals for students. After successful completion of the program or degree at Imperial Valley College, students are expected to have measurable improvement in the following areas:

- ISLO 1: Communication Skills
- ISLO 2: Critical Thinking Skills
- ISLO 3: Personal Responsibility
- ISLO 4: Information Literacy
- ISLO 5: Global Awareness

AUTO 130

Automotive Electronics 1 OBJECTIVES

- Week 1 Class Orientation, review of safety procedures, review of tools and equipment.
- Week 2&3 Basic Electricity and Electronics Chapter 8
- Week 4 Basic Electrical Tests, Meters, Testers, and Analyzers Chapter 8
- Week 5 Automotive Batteries Chapter 28
- Week 6 Battery Testing Chapter 29
- Week 7&8 Starting System Fundamentals, Testing and Repair Chapters 30 & 31
- Week 9 Mid-term
- Week 10&11 Charging System Fundamentals Chapter 32
- Week 12&13 Charging System Diagnosis, Testing, and Repair 33
- Week 14 Ignition System Fundamentals Chapter 34
- Week 15 Electrical/Electronic systems ASE questions
- Week 16 Final Exam

LECTURE IS SUBJECT TO CHANGES

GRADING SYSTEM:

There will be a mid-term and a final exam. Each will be worth 25% of your grade. The mid-term will have 50 ASE type questions. The final exam will have 100 ASE type questions. Quizzes will make up 25% of your grade. The last 25% of your grade will be on projects assigned as part of the lab section of class.

Percentages:

25% Completed Assignments 25% Quizzes 25% Mid-term exam 25% Final Exam

100%

Grading Scale:

100-90%	Α
89-80%	В
79-70%	С
69-60%	D
59-50%	F