

**Basic Course Information**

Semester	Spring 2015	Instructor's Name	Jose Perez
Course Title & #	Auto 130	Email	<a href="mailto:Jose.Perez@imperial.edu">Jose.Perez@imperial.edu</a>
CRN #	20009	Webpage (optional)	
Room	1102 Monday / 3100 Wed.	Office	Part-Timers: Room N/A
Class Dates	Feb. 17, 2015-Jun. 12, 2015	Office Hours	n/a for part-time faculty
Class Days/ Times	Monday 6:30-9:40 Wednesday 6:30-8:35	Office Phone #	(760) 996-0228
Units	3 Units	Who Students Should Contact If Emergency Or Other Absence	Instructor: Jose Perez (760) 996-0228

**Course Description**

**Advanced study of automotive electrical systems. Basic diagnosis and service procedures on the various systems. (CSU)**

**Student Learning Outcomes**

**Upon course completion, the successful student will have acquired new skills, knowledge, and or attitudes as demonstrated by being able to:**

1. State the basics of the electron theory of electricity.
2. Employ ohms law in troubleshooting electrical circuits.
3. Recognize the effect of electronics on automotive advances.
4. Give two methods of rating battery performance.
5. Describe how the starting system works.
6. Give examples of possible causes of starting system problems.
7. Explain the principal of electromagnetic induction.
8. Name the major components of an alternator.
9. Give quick checks for solving charging system problems.
10. Explain how the different types of ignition systems operate.

**IVC as an institution has adopted five students learning outcomes (SLO'S). They are interconnected with each other. They will be inherent throughout this course:**

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

### Course Objectives

Upon successful completion of this course, students will be able to:

1. To prepare graduates for employment as automotive mechanics, parts and supply house technicians, and service station mechanics and operator. The training program is intended to meet the entry level skill needs in the occupational field of Automotive Technology (mechanics).
  - A. Comply with all safety shop procedures associated with stands, air tools, hydraulic jacks, and car lifts.
  - B. Have a thorough understanding of the Manual Transmission system and its components
  - C. Describe the power flow systems of the Manual Transmissions.
  - D. Describe the proper steps and procedures to disassembly and assembly Manual Transmissions.

### Textbooks & Other Resources or Links

Modern Automotive Technology 7<sup>th</sup> Edition Author: James E. Duffy

### Course Requirements and Instructional Methods

Lectures, textbook/workbook, assignments, worksheets, video guide, internet information, live demonstrations, quizzes, mid-term and final tests

. **Out of class Assignments:** The Department of Education policy states that one (1) credit hour is the amount of student work that reasonably approximates not less than one hour of class time and two (2) hours of out-of-class time per week over the span of a semester. WASC has adopted a similar requirement.

### Course Grading Based on Course Objectives

#### Required Information—discretionary language

**This section is where faculty would list their grading practices and grading scale, including point values and totals. Consider adding final grade calculation, rubrics, late assignments, and other grading practices.**

There will be a mid-term and final exam. Each will be worth 25% of your grade. The mid-term will have 50 ASE 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% A

89-80% B

79-70% C

69-60% D

59-50% F

### Attendance

- A student who fails to attend the first meeting of a class or does not complete the first mandatory activity of an online class will be dropped by the instructor as of the first official meeting of that class. Should readmission be desired, the student's status will be the same as that of any other student who desires to add a class. It is the student's responsibility to drop or officially withdraw from the class. See General Catalog for details.
- Each student is required to comply with the schedule established by Imperial valley College and the Automotive Program. Students should attend class each day is in session. If for reasons a student is absent she/he is responsible for making up any missed work. It is recommended that students call the office to inform the instructor if she/he is ill or bring a doctor's release not 3 tardies = 1 absence 4 absences = Student will be dropped or given an "N" INCOMPLETE.

### Classroom Etiquette

#### Required Information --Discretionary language

**This is where an instructor explains his/her policy on these matters. Here is some suggested language:**

- Electronic Devices: Cell phones and electronic devices must be turned off and put away during class, unless otherwise directed by the instructor. **Consider:** specifics for your class/program (No music allowed in the auto shop)
- Food and Drink are prohibited in all classrooms. Water bottles with lids/caps are the only exception. Additional restrictions will apply in labs. Please comply as directed.
- No parking in front gate.
- No parking inside the shop during lecture time.
- No work should be done without instructor's permission.
- 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 helpers or visitors during lab activities.
- Safety glasses required.
- Disruptive Students: Students who disrupt or interfere with a class may be sent out of the room and told to meet with the Campus Disciplinary Officer before returning to continue with coursework. Disciplinary procedures will be followed as outlined in the General Catalog.
- Children in the classroom: Due to college rules and state laws, no one who is not enrolled in the class may attend, including children.

### Academic Honesty

#### Required Language

- Plagiarism is taking and presenting as one's own the writings or ideas of others, without citing the source. You should understand the concept of plagiarism and keep it in mind when taking exams and preparing written materials. If you do not understand how to 'cite a source' correctly, you must ask for help.
- Cheating is defined as fraud, deceit, or dishonesty in an academic assignment, or using or attempting to use materials, or assisting others in using materials that are prohibited or inappropriate in the context of the academic assignment in question.

Anyone caught cheating or will receive a zero (0) on the exam or assignment, and the instructor may report the incident to the Campus Disciplinary Officer, who may place related documentation in a file. Repeated

acts of cheating may result in an F in the course and/or disciplinary action. Please refer to the General School Catalog for more information on academic dishonesty or other misconduct. Acts of cheating include, but are not limited to, the following: (a) plagiarism; (b) copying or attempting to copy from others during an examination or on an assignment; (c) communicating test information with another person during an examination; (d) allowing others to do an assignment or portion of an assignment; (e) using a commercial term paper service.

### Additional Help – Discretionary Section and Language

**The instructor can add the information pertinent to his or her class here. Some suggested language:**

- Blackboard support center: <http://bbcrm.edusupportcenter.com/ics/support/default.asp?deptID=8543>
- Learning Labs: There are several ‘labs’ on campus to assist you through the use of computers, tutors, or a combination. Please consult your college map for the Math Lab, Reading & Writing Lab, and Study Skills Center (library). Please speak to the instructor about labs unique to your specific program.
- Library Services: There is more to our library than just books. You have access to tutors in the Study Skills Center, study rooms for small groups, and online access to a wealth of resources.

### Disabled Student Programs and Services (DSPS)

**Required Language:** Any student with a documented disability who may need educational accommodations should notify the instructor or the Disabled Student Programs and Services (DSP&S) office as soon as possible. The DSP&S office is located in Building 2100, telephone 760-355-6313, if you feel you need to be evaluated for educational accommodations.

#### 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.

### Student Counseling and Health Services

**Required Language:** Students have counseling and health services available, provided by the pre-paid Student Health Fee. We now also have a fulltime mental health counselor. For information see <http://www.imperial.edu/students/student-health-center/>. The IVC Student Health Center is located in the Health Science building in Room 2109, telephone 760-355-6310.

### Student Rights and Responsibilities

**Required Language:** Students have the right to experience a positive learning environment and due process. For further information regarding student rights and responsibilities, please refer to the IVC General Catalog available online at

[http://www.imperial.edu/index.php?option=com\\_docman&task=doc\\_download&gid=4516&Itemid=762](http://www.imperial.edu/index.php?option=com_docman&task=doc_download&gid=4516&Itemid=762)

### Information Literacy

**Required Language:** Imperial Valley College is dedicated to helping students skillfully discover, evaluate, and use information from all sources. Students can access tutorials at <http://www.imperial.edu/courses-and-programs/divisions/arts-and-letters/library-department/info-lit-tutorials/>

### Anticipated Class Schedule / Calendar

**Required Information –Discretionary Language and Formatting:** The instructor will provide a tentative, provisional overview of the readings, assignments, tests, or other activities for the duration of the course. The faculty may find a table format useful for this purpose.

**Spring Class Schedule 2015**

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

**LECTURE IS SUBJECT TO CHANGES**

## Spring SEMESTER 2015 IMPORTANT DATES AND DEADLINES

**NOTE: The deadlines below are for full-term classes. Deadlines for short-term classes vary with the length of the class.** Most deadlines are mandated in the CA Code of Regulations and are a percentage of the length of the class.

<b>Beginning October 1</b>	New and former students may file admission application for Winter/Spring 2015 and/or Summer/Fall 2015.
<b>November 10</b>	Priority registration begins
<b>February 13</b>	<b>Holiday</b> – Lincoln’s Birthday. No classes.
<b>February 16</b>	<b>Residency determination date.</b> <b>Holiday</b> – Washington’s Birthday. No classes.
<b>February 17</b>	<b>Classes begin.</b> Beginning on first day each class meets, add authorization code from instructor required to register for that class, filled or open.

<b>February 17 - 28</b>	<b>Late Registration.</b> Beginning on first day each class meets, add authorization code from instructor required to register for that class, filled or open.
<b>**February 28**</b>	<b>Deadline to register for full-term courses.</b> <b>Deadline to drop full-term classes without owing fees and/or be eligible for Refund.</b> <b>Deadline to select P/NP grading option for courses with that option</b> (see section <i>On Change Grading Options</i> ). Does not pertain to Non-credit Program courses.
<b>March 1</b>	<b>Deadline to drop without course appearing on transcript (without receiving a W).</b> <b>Note:</b> fees will be charged and no refunds given for courses dropped on March 1. See February 28.

<b>March 2</b>	<b>Census</b>
<b>March 2</b>	Ticketing for parking violations in student spaces on main campus begins. <u>Note:</u> tickets are issued for reserved (faculty/staff), disabled, metered, 15-minute, and no-parking spaces year around.
<b>February 28</b>	<b>Deadline to make up incomplete grade (I) granted Fall 2014 or Winter 2015.</b>
<b>March 9</b>	<b>Financial Aid Enrollment Freeze Date</b>
<b>April 17</b>	<b>Deadline to submit <i>Petition for Graduation</i> for degree to be awarded for Spring and Summer 2015 and participate in Commencement.</b> Completed petition must be received in Admissions & Records Office by this date. Students must meet with a Counselor and have an evaluation completed and petition signed before this date.
<b>April 6 - 11</b>	Spring Recess. No classes.
<b>April 30</b>	Financial Aid Return to Title IV drop deadline.

<b>**May 16**</b>	<b>Deadline to drop full-term classes. (Note: This deadline date is not for short-term classes.)</b>
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<b>June 8 - 12</b>	Final Exams.
<b>June 13</b>	Commencement Ceremony
<b>June 24</b>	Summer Term 2015 classes begin.

