



PACT 120 Honda Electrical Systems section name section credit hours
Credits
Syllabus

Course Information

Meeting times and location: section meeting_times section location

Catalog description: A study of the electrical and electronic systems found on Honda and Acura vehicles. Emphasis is on basic circuitry, starting systems, charging systems, ignition systems, diagnosis and servicing the electrical components on current model Honda and Acura vehicles. On-board computer networks found on modern Honda and Acura vehicles, proper techniques for isolating, diagnosing and repairing complex automotive computer networks. Theory and operation of key hybrid vehicle systems and components. Instruction will include test equipment related to ignition, electrical, and electronic devices. Personal safety will be emphasized.

Prerequisites: PACT-110

Terms offered: Fall Only

Section-specific Course Description:

Course Level Objectives

Broad and Specialized Learning

Students will actively and independently acquire, apply, and adapt skills and knowledge with an awareness of global contexts.

Critical Thinking

Students will think analytically and creatively to explore ideas, make connections, draw conclusions and solve problems.

Cultural and Civic Engagement

Students will act purposefully, reflectively, and ethically in diverse and complex environments.

Effective Communication

Students will exchange ideas and information with clarity in multiple contexts.

Information Literacy

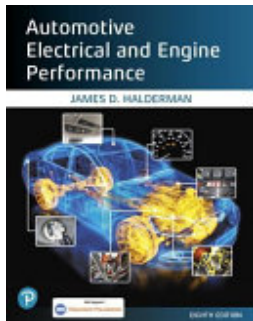
Students will be able to recognize when information is needed and have the ability to locate, evaluate, and use it effectively.

Integrating Technologies

Students will demonstrate fluency in the application and use of technologies in multiple contexts.

Student work from this class may be randomly selected and used anonymously for assessment of course, program, and/or institutional learning outcomes. For more information, please refer to the Dean of the appropriate School.

Required Texts and/or Materials



Automotive Electrical and Engine Performance

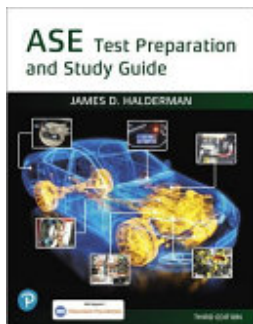
9780135224809

James D. Halderman

Pearson

2019-02-02

This book is also used in PACT 130



ASE Test Prep and Study Guide

9780135232866

James D. Halderman

Pearson

2019-01-25

This book is used in all PACT topics.

Required Technology and Software

- Canvas
- Chrome, Safari, or Firefox

Technical Support

Technical support is available through the San Juan College Help Desk 24/7/365. The help desk can be reached at 505-566-3266 or by creating a ticket at [San Juan College Help Desk](#).

For tickets and password reset: [San Juan College Help Desk](#)

For Canvas support information: [Canvas Support](#)

Accessibility/Privacy Policies for all Technology Tools Used

[Accessibility/Privacy Policies for all Technology Tools Used](#)

Course Requirements

Students will do the following activities:

1. Work with automotive electrical systems utilizing the manufacturers' recommended safety procedures.
2. Demonstrate knowledge of electrical fundamentals by properly using an amp, volt, and ohmmeter. (digital and analog)
3. Diagnose circuits which have conditions such as: shorts, opens, and grounds.
4. Inspect electrical connections and repair them using accepted manufacturers' procedures.
5. Diagnose and repair various electrical circuits and components.
6. Diagnose and repair electronic level controls.
7. Test switches, fuses, and circuit breakers.
8. Remove and replace fuse block & associated assemblies.
9. Test a turn signal circuit.
10. Test instrument gauges.
11. Test specific gravity on a battery.
12. Perform a load test on a battery.
13. Properly charge a battery.
14. Perform a starter amp draw test.
15. Perform a voltage drop test on a starter system.
16. Perform a charging system output test.
17. Repair a no charge condition.
18. Remove and replace electronic control units.
19. Diagnose and repair solid-state ignition systems.
20. Demonstrate the use of an oscilloscope and identify four patterns.

COVID Safe Practices for Being on Campus

Masks / cloth face coverings must be worn while on campus in accordance with the New Mexico public health order. If you feel that you cannot wear a mask due to health complications, please contact Disabilities Services:

disabilityservices@sanjuancollege.edu or call (505) 566-3271. Hand sanitizer stations are at all building entrances, please “wash in, wash out”--clean your hands when you enter and before you leave. Classrooms and labs have been arranged to allow for social distancing; please respect your classmates and instructors by staying 6 feet away from everyone. You will be expected to disinfect your table or area prior to class and after class, cleaning products will be provided for this purpose. Check with your instructor for specific policies for their course. Please do not congregate in hallways or common areas, instead utilize our beautiful outside spaces and weather to visit with your friends and colleagues from a safe distance.

If you have been in contact with anyone who has tested positive for COVID-19, has symptoms, or is waiting on test results, contact your instructor and DO NOT come to class. If you have tested positive, have symptoms or are waiting on test results, contact your instructor and DO NOT come to class. Your health care provider or the assigned contact tracer will let you know when it is safe for you to be around others.

Student Support

Student Services and Support

The Student Support webpage provides information on counseling, tutoring, technical support, and many other support services available to San Juan College students.

[Student Support](#)

Academic Support

Academic Support webpage provides information on academic advising, the library, Testing Center, and the honors program.

[Academic Support](#)

Participation and Attendance Policy

Because the class emphasizes on hands-on lab activities, consistent attendance is required. Students that are not in class when attendance is taken will be counted

absent. Personal errands should be scheduled for times that will not conflict with class schedule. Students will not be given make-up work.

Federal and State education guidelines have stated that students missing 10% or more of their classes should not be eligible to pass that class. The SJC Automotive Department uses the attendance rubric below when calculating your attendance.

If you miss 10% of your classes you will receive an “X” grade. Refer to the following chart.

% CLASSES MISSED	ATTENDANCE
0%	OK
10%	X
20%	X
30%	X
40%	X
50%	X
60% - 100%	X

Understand that this is based on percentage of the total number of days available in the course based on the official SJC course calendar. For example:

If your course schedule shows that a course runs 20 days (4 weeks), 2 missed days would count as missing 10 % of the available days and would result in an Incomplete (I). One day would count as 5% of the available days.

So each day in a 20 day course counts as 5%. Each day in a 40 day course counts as 2.5% (rounds to 3%). Each day in an 80 day course counts as 1.25% (rounds to 1%) etc.

Also remember that late arrivals will be counted absent.

Other Classroom Policies and Expectations

Dress code will be enforced. Dress code consists the following:

- PPE (Personal Protection Equipment). This includes leather, safety sole shoes and clear safety glasses. When working with other types of shop equipment such as welders or high voltage circuitry, wear the required safety equipment.
- Long pants and a shirt
- Long hair should be up and all loose, hanging jewelry should be tucked away or removed

Students will do the following activities:

- Work safely in an automotive repair facility.
- Work collaboratively with other technicians.
- Use technology to access service literature.
- Perform routine scheduled maintenance.
- Perform Level 1 automotive tasks such as LOF, interior repairs, tire service, and vehicle inspections
- Write repair orders and repair estimates.

Canvas Participation and Expectations

Students should spend at least 6-9 hours of outside study for this course. Students are expected to check Canvas at least once a day.

Instructor Response Time

I will respond to e-mail and text messages within 24 hours.

Course Time Commitment

Besides the 30 hours a week in the lab and classroom, you should allow at least 6-12 hours per week for study and outside assignments.

Grading

Final grades are calculated based on the following...

Category	Weight
Quizzes and homework	40%
Shop Work	30%
Final Assessments	30%

The percentage - to - letter grade scale:

Percentage	Letter Grade
93-100	A
85-92	B
77-84	C
69-76	D
0-68	F

Key Dates to Remember

[Full Academic Calendar](#)

Course Schedule

Unit 1: Introduction to Electricity

Unit 2: Ohm's Law and DC Circuit Analysis

Unit 3: Using Ohm's Law in Automotive Applications

Unit 4: Electrical Troubleshooting and Diagnosis

College Policies

The following information also applies to your work in this class. If you have special needs for campus emergency situations, please inform me immediately.

1. **Academic Accommodations - American with Disabilities Act (ADA)**

If you believe you need academic accommodations due to physical or learning disabilities, you are encouraged to inform them as soon as possible. The coordinator can work with you in verifying your disabilities and developing accommodation strategies. Please go to [Disability Services Office](#), click the button for "Request for Services" and complete all the steps.

You can also contact the college's disability coordinator in the Advising/Counseling Center at 566-3271 or disabilityservices@sanjuancollege.edu. More information is available on the website listed above.

2. **The Family Educational Rights and Privacy Act (FERPA)**

Your personal information and grade are confidential. Aside from routine reporting to the college required for this course, I will not share such information with anyone unless I have your permission.

3. **Academic Honesty Rules**

San Juan College expects all students to adhere to the [Academic Honesty Rules](#) as posted online. These are the official guidelines for all classes at San Juan College (July 2006).

4. **Student Conduct Statement**

College is preparation for professional opportunities, and professional conduct is expected in courses, including online classes, as well as any written communications, and interactions with members of the college community. As part of our learning community, students are expected to interact and communicate in a mature, respectful, thoughtful, and supportive manner. Students who demonstrate disrespectful, hostile, belittling, bullying or other disruptive behavior will be subject to potential consequences and possible dismissal from the college. The college will take appropriate action when students demonstrate threatening behavior (to others or self). Students should refer to the Code of Conduct in the Student Handbook for additional information.

5. **Student Safety**

Keeping students safe is a priority, and part of that is ensuring that we have the ability to communicate emergency messages – whether for school closures due to weather or for more or urgent situations. Rave is San Juan College’s emergency messaging system. Through your SJC student email, you will automatically receive email messages, however, it is also vital that you receive text messages. In order to receive the messages, you must register in a simple process with [Rave](#). When registering, please make sure that your mobile status is “confirmed.”

The Department of Public Safety is available 24 hours per day. In an emergency, they can be accessed by calling 215-3091 or 566-3333.

In the event of an emergency, a Rave message will be sent, and depending on the situation, you will be instructed to do one of the following:

- Evacuate the building
- Shelter in place (Campus doors are locked, and operations continue as normal. During this situation, no one other than law enforcement is allowed in or out of the campus.)
- Lockdown (Campus doors are locked. All operations cease, and you should take cover in your immediate area. No one other than law enforcement is allowed in or out of the campus.)

6. **Non-Discrimination, Sexual Harassment, and Retaliation.**

San Juan College does not discriminate on the basis of race, color, religion, sex, sexual orientation, gender identity, national origin, disability, age, genetic, veteran's status, or on the basis of any other category protected under federal, state and local laws. If you have experienced sexual harassment, sexual assault, or any other form of protected class discrimination, we encourage you to make a report. If you report to a faculty member, she/he/they are obligated by policy to share knowledge, notice, and/or reports of harassment, discrimination, and/or retaliation with the Title IX Coordinator. These disclosures include but are not limited to reports of sexual assault, dating/domestic violence, and stalking. You may also make a confidential report to a SJC Counselor. Please refer to San Juan College's [Title IX](#) site for further details.

San Juan College's Title IX Coordinator is Stacey Allen, Assistant Director of Human Resources/Equity, Diversity, and Inclusion Officer. The office is located at the Educational Services Center Building, 2nd Floor, Human Resources, Room 4243 at (505) 566-3515 or allens@sanjuancollege.edu.

7. **Drop for Non-Attendance and/or Non-Participation**

Class Attendance and Participation Expectation:

Face-to-Face -- Students are expected to attend and participate in class regularly. Any student missing more than 10% of consecutive class time, (For example, in a regular 15-week class that meets twice a week, this equates to the student missing 3 consecutive classes) without consultation with the instructor may be considered as having abandoned the course.

On-line -- Students are expected to participate regularly and submit all course assignments, based on the course guide definition. A student who does not submit any assignments during a consecutive 10% of the course (1.5 weeks of a 15-week semester) without consulting the instructor, may be considered as having abandoned the course. Logging in does not meet the attendance standard.

Competency-Based Education Classes -- Students are expected to have regular and substantive interactions with their instructor and to actively work on course content. A student who has not submitted coursework, nor had substantive interactions with the instructor over a consecutive 10% of the term, without the instructor's prior approval, will be considered to have abandoned the competency progression. Last date of attendance will be recorded as the last date that coursework was submitted or that the student met with the instructor. For on-line learners, logging in does not meet the attendance standard.

8. Failure to Meet Class Participation Expectation:

Students who fail to meet participation expectations will have their last date of attendance recorded. This date will be used to recalculate any financial aid received/veteran's benefits received, and the student may be required to repay the institution/government. If the student does not drop the course, an 'X' grade will be recorded. An 'X' grade impacts the grade point average the same as an 'F'.

9. Grading Policies

Incomplete: Incomplete Grade Assignment ([Incomplete Grades Information](#))

The grade of I (Incomplete) is given for passing work that could not be completed during the semester because of circumstances beyond the student's control. Ordinarily, the assignment of an I is given by the course instructor at the time final grades are due

In no case is an I grade to be used to avoid assignment of D or F grades for marginal or failing work or to require a student to enroll in the class the next semester because work was not completed on time. Circumstances warranting the issuance of an I grade must be beyond the student's control and must be documented on the appropriate form prior to approval.

I grades can be removed only during the subsequent 16 weeks from the end of term, or within the time limit set by the instructor. Removal of an I is accomplished by completing the work in a manner acceptable to the instructor. Re-enrollment in the course under the repeat option does not remove the prior grade of I. Students should not re-enroll for the course. An I not made up within 16 weeks or within the time limit set by the instructor will change to an F grade thereafter and cannot be changed by work completion.

10. Grade Appeals

The policy for grade appeals is in the Academic Catalog. ([Grade Appeal Policy](#))

Student Handbook

The Student Handbook provides information on Student support, student organizations, and San Juan College policies.

[Student Handbook](#)