



MCAP 120 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 Chrysler FCA vehicles. Emphasis is on basic circuitry, starting systems, charging systems, ignition systems, diagnosis and servicing the electrical components on current model Chrysler FCA vehicles. On-board computer networks found on modern Chrysler FCA 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: MCAP-110

Terms offered: Fall Only

Section-specific Course Description:

Course Level Objectives

Demonstrate Knowledge in:

- Basic Electrical and Ohms Law
- Proper usage of DVOM Meters, Oscilloscope and related testing tools and equipment
- Satisfy Chrysler requirements for
 - Web Based Training WBT courses
 - Instructor Led Training ILT courses
- Prepare for and pass Chrysler specific benchmark tests
 - Electrical Skills Fundamentals Assessment

- Electronic Controls Assessment
- Prepare to take and pass the ASE test A-6

Required Texts and/or Materials

All Electrical Textbooks are provided by Chrysler for this course

Required Technology and Software

- Canvas
- Chrome, Safari, or Firefox

Course Requirements

Students will do the following activities:

- Attend class daily
 - Be prepared to be in the lab every day
- Participate in class
 - Prepare and present various short class presentations
- Written and hands on tests
- Complete assigned Web Based Training
- Complete FCA Chrysler Instructor Led Training
- Certify by taking Industry Standard Tests:
 - ASE
 - Chrysler skills assessments
- Participation and Attendance Policy

Other Classroom Policies and Expectations

Other Classroom Policies and Expectations

- Be prepared to perform your share of work in team and lab settings

- Bring Basic tools for lab work
- Be properly and safely dressed as outlined in safety procedures
- Learn and observe industry safety procedures

Grading

Below is the grading rubric for final grade calculation:

Category	Weight
Quizzes & Assessments	40%
Shop Work	30%
Final Assessments	30%

Note: Attendance is not directly entered as a grade. Students missing more than 10% of the scheduled days will receive an “X” grade and no credit.

Below is the grading percentage-to- letter grade scale:

Percentage	Letter Grade
90 - 100	A
80 - 89	B
70 - 79	C
60 - 69	D
0 - 59	F

Course Time Commitment

Expect to spend 5-7 hours per week outside of class on assignments:

- Web based training
- Chapter and text study
- Other assignments

Canvas Participation and Expectations

Students should check canvas often for due dates, assignment instructions and announcements.

Often assignments will have specific deadlines, instructions, and submission requirements.

Participation and Attendance Policy

Participation and Attendance Policy

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.

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'

.Participation and Attendance Policy

Because of the class emphases 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 has 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.

% Classes Missed	Attendance
0% - 10%	OK
11% - 100%	X
An 8 week 5 days per week class has 40 days.	
4 days = 10%	
A night class will only have 16 days. 1.6 days = 20%	

If you miss more than 10% of your classes you will receive an "X" grade

Instructor Response Times & Regular Interaction Expectations

I may be contacted by text or phone. My office hours are Monday, Wednesday 1:30 – 2:00

I will try to have papers graded and posted within 2 school days

Key Dates to Remember

[Full Academic Calendar](#)

Course Schedule

Follow 8 week schedule as outlined in the modules and calendar in canvas.

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 password reset and Canvas support, visit the [Student Technology Guide](#) website.

Accessibility/Privacy Policies for all Technology Tools Used

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

Student Support

At San Juan College, we are committed to supporting your academic success and overall well-being. We recognize that college life can be challenging and stressful, impacting both learning and personal health. We are here to help you succeed.

Academic Support and Resources

We provide a range of academic support services to help you stay on track on your educational journey. Free resources include tutoring, computer loans, life skills workshops, and so much more. Visit the [Academic Support and Resources](#) webpage to learn more about support and resources available through Academic Advising, the Tutoring Center, the Student Resource Center (formerly Student Achievement Center) and the Testing Center.

Student Support and Resources

If you or someone you know could benefit from counseling, accessibility services, career exploration, veteran transitional assistance, or any of our other support services, visit the [Student Support and Resources](#) webpage where you'll find detailed information about various resources available to you as an SJC student.

We encourage you to take advantage of these free resources to enhance your college experience and ensure your success.

College Policies and Resources for Current Students

The [Student Handbook](#) provides information on student support, student organizations, and student conduct policies at San Juan College.

The San Juan College catalog outlines the [Academic Policies](#) students need to know.

Healthy and Safe Practices for Being on Campus

We want a healthy and safe campus for students, faculty, staff, and guests.

Contagious diseases and your responsibility:

If you have COVID-19 symptoms, fever, flu or even the common cold, you should stay home. Do not come to campus if you are feeling sick. Contact your instructor about missing class (and review your instructor's policies on missed or late work). Being sick does not necessarily excuse you from completing your work on time.

Safety on campus and your responsibility:

If you are on campus and experience or witness an emergency, call 9-1-1 first and then the Department of Public Safety at 505-566-3333 (or just 3333 if calling from a campus phone).

When you are on campus, be aware of your surroundings. If you need an escort to your vehicle, call 505-566-4444 (DPS non-emergency line) or 505-215-3091 (officer on duty line).

The College will send information for campus emergencies through SJC AlertAware, email and the webpage. Stay informed and stay safe.

Inclement Weather Information

Students will receive notification of class delays and cancellations due to inclement weather via the SJC AlertAware and SJC student email. Face-to-face classes will not meet in person; however, students are advised to check with instructors about alternative meeting options, as some may choose to meet via zoom. Hybrid classes will meet as scheduled via zoom. For questions regarding your class delay or cancelation, please contact your instructor.

Online Course Fee

Online Courses - San Juan College requires all online courses to include some form of assessment to demonstrate the mastery of course objectives. This could include exams, capstone projects, e-portfolios, presentations, final papers or other appropriate assessments. The use of a proctoring platform, plagiarism detection software or other method to ensure that assessments are completed by the enrolled student is required.

A course fee of \$5.00 is assessed for all online courses at San Juan College to cover the cost of the above services. Students who are required to take a proctored exam and choose to use a physical testing center outside the SJC Testing Center or SJC Disability Services will be responsible for the cost of using that center.