



AUTE 118 Engine Repair Section Name Section Credit Hours Credits

Syllabus

Course Information

Meeting times and location: section meeting_times section location

Catalog description: This course will cover the principles and operation of the internal combustion engine. Engines will be properly disassembled, inspected, measured, and reassembled. Safety is emphasized.

Prerequisites: Take AUTE-119 AUTE-113

Terms offered: Fall Only

Section-specific Course Description:

Course Level Objectives

This course will cover automotive engine removal, installation, diagnosis, disassembly, repair, and reassembly.

Required Texts and/or Materials

Automotive Engine Repair

0-13-465400-5

James Halderman

Pearson

2018

Eighth

Required Technology and Software

- Canvas
- Chrome, Safari, or Firefox

Course Requirements

At the conclusion of the course the student will be able to:

1. Demonstrate safe procedures for engine service.
2. Demonstrate knowledge of the four-stroke engine.
3. Identify various lubricants and their usage.
4. Perform an oil pressure test.
5. Locate and repair engine oil leaks.
6. Disassemble and assemble a four-stroke engine.
7. Identify various sealants and their applications.
8. Measure crankshaft journals.
9. Measure crankshaft end play with a dial indicator.
10. Plastigage main and rod bearings.
11. Measure cylinder walls and fit pistons.
12. Deglaze cylinder walls.
13. Install piston rings and check clearances.
14. Remove cylinder ridge.
15. Remove and install camshaft bearings.
16. Time camshaft(s) to crankshaft.
17. Measure play in timing chains, gears, and belts.
18. Inspect oil pump for excessive wear.
19. Perform a complete valve job.
20. Inspect valve train and guides for cause of malfunctions.
21. Remove and replace core plugs.
22. Identify different engine noises.
23. Adjust hydraulic and solid lifters.

Grading

Final grades are calculated based on the following...

40% Quizzes, labs, and chapter questions

30% Shop/classroom participation grade (includes attendance grade)

30% Final exam-written and hands-on(if applicable)

Course Time Commitment

Time will be required outside of class to read the text and answer end of chapter quiz questions. Time may also be needed to review for quizzes and to prepare for lab exercises.

Canvas Participation and Expectations

Grades will be entered on Canvas. Please notify the instructor promptly if there are any issues.

Participation and Attendance Policy

In accordance with new state financial aid guidelines, any student missing more than 10% of the classes will receive a failing grade. A student, who is not in the classroom when roll is taken, will be counted absent. If he/she arrives in the first 10 minutes, they will be counted tardy. After 10 minutes the tardy becomes an absence. Three accumulated tardies count as one absence. All absences will be classified as unexcused unless otherwise arranged with the instructor. If you are unable to attend class or will be late, it is your responsibility to call your instructor before class time, if possible.

All students should participate in classroom discussions and in lab exercises, the learning environment improves for all with active participation.

Instructor Response Times & Regular Interaction Expectations

Instructors will normally respond to phone calls/texts the same day. Please allow two business days to respond to emails.

Key Dates to Remember

[Full Academic Calendar](#)

Course Schedule

The class meets Monday through Friday 7:30-11:30am 9/20/2021-21/14/2021

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.