



DISL 120 On-Highway Steering and Suspension Section Name Section Credit Hours Credits **Syllabus**

Course Information

Meeting times and location: section meeting_times section location

Catalog description: Steering and suspension system components, diagnosis, and repair. Students will learn on a variety of Class 6 to Class 8 on-highway truck suspension as well as learn wheel end components, wheel alignment, frames, and 5th wheels. Safety will be strictly enforced. A grade of "C" or better must be earned to receive credit for this course.

Terms offered: Fall Only

Section-specific Course Description:

Course Level Objectives

1. Measure steering knuckle bushing wear
2. Check/Adjust wheel bearing preload.
3. Diagnose steering problems, looseness, and binding problems.
4. Perform a pre-alignment inspection
5. Inspect, adjust, and align power steering pump drive belt(s), pulley(s), and tensioners; repair/replace as needed.
6. Disassemble, inspect and reassemble a manual steering gear. Set worm bearing and total mesh preload
7. Inspect, adjust, and replace drag link and tie rod ends.
8. Inspect steering arm and levers and linkage pivot joints; replace as needed.
9. Inspect clamps and retainers; position or replace as needed.
10. Check steering linkage and wheel stops; adjust as needed.

11. Inspect, remove and replace kingpin, steering knuckle, bushings, locks, bearings, seals, and covers; determine needed repairs.
12. Check toe, camber, caster, king pin inclination and turning radius; adjust as needed.
13. Diagnose unusual tire wear patterns; determine needed repairs.
14. Check and adjust center steer on a vehicle
15. Check and adjust tire air pressures to specification.
16. Inspect frame misalignment relating to suspension components.
17. Diagnose steering problems, looseness, and binding problems.
18. Check and adjust air bag height to specifications.
19. Inspect front axles, u-bolts, and fasteners; determine repairs as needed.
20. Inspect leaf springs, center bolts, clips, eyebolts and bushings, shackles, slippers, insulators, brackets, and mounts; determine needed service or repairs.
21. Inspect wheels, rims, spacers, clamps, studs, and nuts; replace as needed.
22. Measure tire diameter; match tires on tandem axle.
23. Inspect frame and frame members for cracks, breaks, distortion, elongated holes, looseness, and damage; determine needed repairs.
24. Remove, inspect and replace a steer axle and suspension components
25. Remove, inspect and replace a spring type drive axle suspension
26. Remove, inspect and replace an air bag type drive axle suspension
27. Perform basic drive axle alignment

Required Technology and Software

- Canvas
- Chrome, Safari, or Firefox

Course Requirements

Students will do the following activities:

Grading

Final grades are calculated based on the following...

Key Dates to Remember

[Full Academic Calendar](#)

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.