

AU3.319 Syllabus

Steering, Suspension and Braking Systems

CRN# 42503 Spring 2022 Major Code 5306

Welcome to AU3.319 Steering, Suspension and Braking Systems.

Class hours are Monday through Thursday 8:00 AM – 11:30 am in ATTC-112 classroom-2 and Lab ATTC-123

We will focus on these 5 learning outcomes;

- 1) Practice safety precautions to protect yourself, vehicles and the environment
- 2) Communicate clearly with team members and customers
- 3) Conduct yourself on the job with a high degree of professionalism
- 4) Use service literature and tools efficiently
- 5) Understand the operational theory for steering, suspension and braking systems

The number one outcome for this class is Safety. You must pass the [onlineSafety&PollutionPreventiontests](#) and earn the [AutomotiveLiftInstituteSafeLiftingCertificate](#).

Our class schedule is organized around these Learning outcomes:

Tires and Wheels, Wheel Alignment, Drum Brakes, Disc Brakes, Suspension Systems, Steering Systems & an introduction to Antilock Brake, Traction Control, and Stability Control Systems

Grading System:

Professional Work Habits.	20% of final grade
Homework.....	10% of final grade
NATEF Lab Activities	30% of final grade
Quizzes.....	10% of final grade
Tests	15% of final grade
Final Exam.....	15% of final grade

A Professional Work Habits grade will be recorded for each class period based on: punctuality, safety, work orders, effective communication, diligence, cleanliness, proper use of tools, procedures and specifications. You must be in class to earn a Professional Work Habits grade for that day however up to four days may be missed with prior approval or proof of medical difficulties.

[NATEFlabactivities](#) must be submitted for grading within one class day of their completion. Important grading options and responsibilities are detailed in the web page [HomeworkandLabOpportunities](#).

You will receive one of these letter grades.

A = 90 - 100% B = 80 - 89% C = 70 - 79% D = 60 - 69% F = Below 60%

P/NP - this option should be discussed with an instructor or advisor

IN – this option must be contracted with the instructor

AU - Audit

Your Instructor for Steering, Suspension and Braking Systems is [RJ Ehlers](#) at 917-4682 or e-mail ehlersr@linnbenton.edu Office Hours are from 7:30 A.M.- 8:00 A.M. Monday through Thursday.

For Lab Safety: No equipment is to be used, or work performed, unless an instructor is present. You will wear safety glasses while in the active lab environment. Contact lenses are not safe, even under safety glasses, and are not allowed. To participate in lab activities, you must first complete the Automotive Lift Institute Safe Lifting Certificate.

The Automotive Technology website is at www.linnbenton.edu/auto.

Links to resources for all LBCC students are at

www.linnbenton.edu/auto/student_serv.htm

The [LearningCenter](#) can help you improve your lifelong learning skills and is a great place to study. They have computers, tutoring services, study skill resources, and a very helpful staff.

Counseling Services are available at the Lebanon Center and the Albany Campus. To schedule an appointment in Lebanon call (541) 259-5801. To schedule at the Albany Campus call (541) 917-4780

Many learning activities in this class require a computer with a high speed internet connection. [ComputerLabs](#) are available on this campus, in Corvallis, Lebanon and Sweet Home.

You should meet with your instructor during the first week of class if

- You have a documented disability and need accommodations
- Your instructor needs to know medical information about you, or
- You need special arrangements in the event of an emergency.
- If you have not accessed services and think you may need them, please contact [DisabilityServices](#), 917-4789

LBCC email and internet:

You are responsible for all communications sent via Moodle and to your LBCC email account. You are required to use your LBCC provided email account for all email communications at the College. Almost all course communications will be done through Moodle. [Here is a link](#) that shows you how to turn email notifications on in Moodle.

Technology Recommendations:

Students need to have adequate equipment in order to be successful while attending the Automotive Program. Students need to have a device or devices that allow them to:

- Write a paper
- Interact on Zoom/Hangouts
- Watch a streaming video
- Create videos
- Download/upload a document or browser
- Take a test

Standard equipment recommendation

- Broadband internet
- A computer with 256g SSD, 8G RAM, i5 6th gen processor (or equivalent functionality) • Device with a microphone and speaker
- Device with a camera

Minimum equipment recommendation

- A wifi hotspot
- A computer with 128g SSD, 4G RAM, i3 6th gen processor (or equivalent functionality) • Device with a microphone and speaker
- Device with a camera

Statement of Inclusion:

To promote academic excellence and learning environments that encourage multiple perspectives and the free exchange of ideas, all courses at LBCC will provide students the opportunity to interact with values, opinions, and/or beliefs different than their own in safe, positive and nurturing learning environments. LBCC is committed to producing culturally literate individuals capable of interacting, collaborating and problem solving in an ever-changing community and diverse workforce.

Title IX Reporting Policy:

If you or another student are the victim of any form of sexual misconduct (including dating/domestic violence, stalking, sexual harassment), or any form of gender discrimination, LBCC can assist you. You can [report](#) a violation of our sexual misconduct policy directly to our Title IX Coordinator. You may also report the issue to a faculty member, who is required to notify the Coordinator, or you may make an appointment to speak confidentially to our Advising and Career Center by calling 541-917-4780.

Public Safety/Campus Security/Emergency Resources:

In an emergency, call 911. Also, call LBCC Campus Security/Public Safety at 541-926-6855 and 541-917-4440. From any LBCC phone, you may alternatively dial extension 411 or 4440. LBCC has a [public safety app](#) available for free. We encourage people to download it to their cell phones. Public Safety also is the home for LBCC's Lost & Found. They provide escorts for safety when needed. Visit them to learn more.

Changes to the Syllabus:

I reserve the right to change the contents of this syllabus due to unforeseen circumstances. You will be given notice of relevant changes in class, through a Moodle Announcement, or through LBCC e-mail.

Important Links:

National Coalition of Certification Centers (NC3): <https://www.nc3certs.com/>

Safety & Pollution Prevention (SP2): <https://sp2.org>

MOPAR/CAPS: <https://dealerconnect.chrysler.com/>

I have read the syllabus for AU3.319 Suspension, Steering, and Brakes. I understand everything in the syllabus and agree to all the conditions required to attend the Automotive Technology Program.

"X" Number

Printed Name

Signature Date