Automatic Transmissions

AUTO2120 001

Instructor Information

[redacted]
Phone: [redacted]
Email: [redacted]
Office Location: [redacted]
Office Hours
[redacted]
Best Time to Contact: [redacted]

My goal is to grade papers the same day and return them to you the following day. I also intend to return student messages the same day if possible.

Course Description

This ASE-EF accredited course is a study of the automotive automatic transmission & transaxle systems. In this lecture/lab course students demonstrate their proficiency in the design theory, maintenance, diagnosis, and repair of modern automotive automatic transmissions & transaxles. It is recommended that students take AUTO 2130 and AUTO 2160 in the same semester as this course.

Prereq: Successful completion of all TEAU (SLTC) Courses: TEAU 1010, TEAU 1050, TEAU 1100, TEAU 1140, TEAU 1150, TEAU 1160, TEAU 1210, TEAU 1240, TEAU 1250, and TEAU 1270.

Semesters: Fall, Spring, Summer

This Automotive Service Excellence (ASE) Education Foundation accredited course is an introduction to the automotive automatic transmission & transaxle systems. In this

lecture/lab course students demonstrate their proficiency in the maintenance, repair, and diagnosis of modern automotive automatic transmissions & transaxles.

Course Student Learning Outcomes

- Demonstrate proficiency in Automotive Service Excellence-Education Foundation (ASE-EF) Master Automotive Service Technology (MAST) tasks in accordance with industry standards.
- Assigned lab work to complete in a professional manner, by working in teams in automotive labs that emulate industry automotive shops.

College Wide Student Learning Outcomes

- Maintain vehicle safety through safe automatic transmission maintenance and repairs. • Identify automatic transmission components and configurations. • Identify and maintain the automatic transmission and its systems • Identify and repair automatic transmissions, including overhaul. • Identify and repair the electronic components of automatic transmissions.

Course Prerequisites

Successful completion of all TEAU (SLTC) Courses:

TEAU 1010 Shop and Safety Practices

TEAU 1050 Introduction To Automotive Service

TEAU 1100 Automotive Engine Repair I

TEAU 1150 Automotive Braking Systems I

TEAU 1140 Suspension and Steering I

TEAU 1160 Electrical and Electronics I

TEAU 1210 Automotive Engine Repair II

TEAU 1250 Automotive Braking Systems II

TEAU 1240 Suspension and Steering II

TEAU 1270 Heating and Air Conditioning

Transfer/Certification/Licensure/Employment Information

The goal of this class is to prepare you to complete the A2 -Automotive Service Excellence (ASE) Certification exam in the area of automatic transmissions.

Communication Plan

Example language:

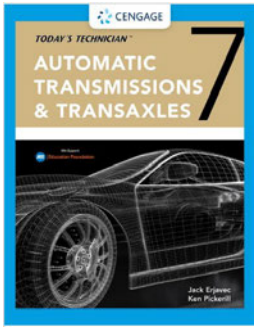
- I will respond to email or Canvas message within 48 hours. I will offer feedback on major assignments within 4 days. The best way to contact me is via the Canvas Inbox, as I will prioritize this message system over other modes of communication.
- Lastly, we'll be holding small group Q & A sessions called SOS days (State of Shop) where we can learn from our peers as each team reviews the challenges they have faced, their diagnostic approach, and developments as they progress through their assigned vehicle's service.

Keys for Success (how to succeed in the course)

- Check the Canvas course home page daily to view your to do list and check for messages or announcements.
- Review the chapter material and join the discussions in class.
- Work in a collegial and professional manner as you complete lab projects.
- Contact or message the instructor in the event of an illness or absence and advise instructor of your attendance if arriving after roll is taken.
- You will track your course progress and prepare reflections on course content or assigned selected topics.

- The lab projects are a great opportunity to explore team building. The goals of all projects are to produce high-quality work. Developing a team to complete quality work in an efficient manner takes effort from all team members,

Required Text or Materials



Title: Today's Technician: Automatic Transmissions & Transaxles
ISBN: 978-1-337-79215-8
Authors: Ken Pickerill
Publisher: Cengage Learning
Publication Date: 2020
Edition: 7th Edition
OID: https://www.cengage.com/c/today-s-technician-automatic-transmissions-and-transaxles-classroom-manual-and-shop-manual-7e-erjavec-pickerill/9781337792158/?searchIsbn=978-1-337-79215-8

For more information on textbook accessibility, contact Accessibility & Disability Services at ads@slcc.edu.

Assignment Schedule

Due Date	Assignment Name	Assignment Type	Points
	Introduce Yourself	Discussion	0
	Introduce Yourself	Discussion	0
	Roll Call Attendance	Assignment	100
9/30	ATRA Training sign up	Quiz	1
9/30	Job Sheet 1	Assignment	10
9/30	Job Sheet 2	Assignment	10

Due Date	Assignment Name	Assignment Type	Points
10/1	Chapter 1	Quiz	20
10/1	Chapter 1 Fill-in the Blank Chapter Review	Assignment	10
10/2	Chapter 2	Quiz	20
10/2	Chapter 2 Fill-in the Blank Chapter Review	Assignment	10
10/3	Section 1 Quiz	Quiz	0
10/3	Acknowledgement of Syllabus	Quiz	1
10/7	Chapter 3	Quiz	20
10/7	Chapter 3 Fill-in the Blank Chapter Review	Assignment	10
10/7	Job Sheet 5	Assignment	40
10/7	Job Sheet 7	Assignment	10
10/7	Worksheet 1 (Chap 5)	Assignment	20
10/8	Section 1 Test	Quiz	40
10/9	Section 1 Reflection	Assignment	10
10/10	Chapter 4	Quiz	20
10/10	Chapter 4 Fill-in the Blank Chapter Review	Assignment	10
10/10	Worksheet 7	Assignment	40
10/14	Chapter 5	Quiz	20
10/14	Chapter 5 Fill-in the Blank Chapter Review	Assignment	10

Due Date	Assignment Name	Assignment Type	Points
10/15	Section 2 Quiz	Quiz	0
10/16	Chapter 6	Quiz	20
10/16	Chapter 6 Fill-in the Blank Chapter Review	Assignment	10
10/21	Job Sheet 10	Assignment	20
10/21	Job Sheet 21	Assignment	20
10/21	Worksheet 6	Assignment	20
10/22	Section 2 Test	Quiz	40
10/22	Section 2 Reflection	Assignment	10
10/24	Chapter 7	Quiz	20
10/24	Chapter 7 Fill-in the Blank Chapter Review	Assignment	10
10/25	Job Sheet 19	Assignment	20
10/28	Chapter 8	Quiz	20
10/28	Chapter 8 Fill-in the Blank Chapter Review	Assignment	10
10/29	Section 3 Quiz	Quiz	0
10/30	Chapter 9	Quiz	20
10/30	Chapter 10 Extra Credit up to 20 points	Assignment	0
10/30	Chapter 9 Fill-in the Blank Chapter Review	Assignment	10
10/30	Live Work	Assignment	298

Due Date	Assignment Name	Assignment Type	Points
10/30	Live Work Extra Credit up to 20 Points	Assignment	0
10/31	Total Course Reflection	Assignment	50
11/1	Final Exam	Quiz	200

Brief Description of Assignments/Exams

Grading Components/Point Structure

Automatic Transmission Course: Point Structure/Breakdown 1110 Points Possible

Assignments	Points	Percentage
In-Class Group Projects	90	8.1%
Book-work Assignments	180	16.2%
Quizzes/Section Tests	82	7.4%
Final Exam	200	18.0%
Live Work	298 (220 Minimum)	26.8%
Worksheets/ Job Sheets	190	17.1%
Course Reflection	70	6.3%

Grading Scale

Grades will be assigned for performance in accordance with the policy outlined in the college catalog. Points are totaled as received from several areas as described in the Grading Components/Point Structure (next heading below).

The final grade is computed using the grading matrix below:

Letter Grade	Percentage Range	Lab Flat-Rate Hours	Cumulative Point Total
A	100 - 94%	29.8 – 28.0	1110 – 1045
A-	< 94 - 90%	27.9 – 26.8	1044 – 999
B+	< 90 - 87%	26.7 – 25.9	998 – 966
B	< 87 - 84%	25.8 – 25.0	965 – 932
B-	< 84 - 80%	24.9 – 23.8	931 – 888
C+	< 80 - 77%	23.7 – 22.9	887 – 855
C	< 77 - 74%	22.8 – 22.0	854 – 821
C-	< 74 - 70%	21.9 – 20.8	820 – 777
D+	< 70 - 67%	20.7 – 20.0	776 – 743
D	< 67 - 64%	19.9 – 19.1	742 – 710
D-	< 64 - 60%	19.0 – 17.9	709 – 668
E	< 60 - 0%	17.8 – 0.0	667 – 0.0

How to Navigate to Canvas

Institutional Policies

As members of our academic community, we would like to invite you to review the Institutional Syllabus which covers important policies and procedures. This document contains important links for students on the code of student rights and responsibilities, academic integrity, and grading policies, Title IX and other important acknowledgements.

By familiarizing yourself with this information, you can help us create a safe and respectful environment for everyone.

You can access the document by clicking on the following link: https://slcc.instructure.com/courses/530981/pages/institutional-syllabus

Learning Support and Tutoring Services

We are pleased to offer a range of tutoring and learning support services to help you achieve your academic goals. Whether you need assistance with a specific subject or want to improve your study skills, you have many options for tutoring or other support.

To learn more about the services we offer and how to access them, please visit the Institutional Syllabus under the Tutoring and Learning Support tab: https://slcc.instructure.com/courses/530981/pages/institutional-syllabus. We encourage you to take advantage of these resources to help you succeed in your studies. If you have any questions or would like to schedule a tutoring session, please don't hesitate to reach out to us. We are here to support you in any way we can.

Advising and Counseling Support Services

At our institution, we are committed to supporting your academic and personal growth. That's why we offer a range of advising and counseling services to help you navigate the challenges of college life. To learn more about the resources available to you and how to access them, please visit the Institutional Syllabus under the Advising and Counseling Support Services tab: https://slcc.instructure.com/courses/530981/pages/institutional-syllabus. Our advising team and the support centers across campus are here to support you in achieving your goals and overcoming any obstacles you may face.

Student Academic Calendar

As students you should be aware of all important dates in the semester, such as the day that courses begin and end, as well as the drop date and the last day to withdraw. To learn more about those dates, navigate to the Student Academic Calendar below:

SLCC Student Academic Calendar

Additional Policies

Lab clean-up days are noted in the Canvas calendar. We will also have additional clean-up days as necessary based upon the lab condition. Remember that potential employers tour our facilities, and it is in your best interest to leave a good impression. Your participation and attendance on lab cleaning/maintenance days will be noted and is required.

Lab Worksheets may be completed as a demonstration/class project. Due to project set up time, it may not be possible to (or very difficult) to make up. Plan to attend. The work sheets are to be turned in at the end of the presentation. Notice will be given prior to the day the assignment is administered. Plan to attend class and lab each day.

There are many shop projects that students can complete to accrue lab hours. A Lab invoice for the project is to be filled out and turned in on completion of the project, contact the instructor to determine time allowed.

You are encouraged to schedule work for the Automatic Trans. Lab. We need to work together to be sure we have the time and the special tools we may need. Remember you are responsible for the successful completion of the Lab work you do. I will assist you, but the bottom line is you need to accept the challenge and work hard. Automatic transmissions can have thousands of moving parts that all must be installed correctly so KEEPING ORGANIZED AND CLEAN will be a great aid in achieving your goals in this course.