



Course Title: Drivetrain and Axles
Course #: AUT 111-1

Credit Hours: 4
Semester: Spring 2021
Cap:

Faculty: Steven Kollas
Office: Auto Tech Office
Office Hours: Fridays 8:00-12:00

E-mail: Skollas@navajotech.edu
Office Phone: 505.387.7403(1045)
Cell Phone: 505.220.1600

Preferred Communication (**Email** and/or text; will respond within 24 hours):

Modality: **Face-to-Face**
Class Location and Meeting Times: T/R 8:30-12:00
Meeting Hours and Online Hours

Required Materials: **All Students are required to have laptop/Tablet and internet access!**
Textbooks: CDX Fundamentals of Automotive Technology 2nd ED (Digital version)
Tools: Leather Work Boots, Safety Eyewear, Automotive uniform shirt (long or short sleeve), notebook, pens, pencils
Lab Fee:

Mission, Vision, and Philosophy

Mission: Navajo Technical University honors Diné culture and language, while educating for the future.

Vision: Navajo Technical University provides an excellent educational experience in a supportive, culturally diverse environment, enabling all community members to grow intellectually, culturally, and economically.

Philosophy: Through the teachings of Nitsáhákees (thinking), Nahátá (planning), Ína (implementing), and Siihasin (reflection), students acquire quality education in diverse fields, while preserving cultural values and gaining economic opportunities

For every credit hour spent in class, a student is expected to spend two hours outside of class studying the course materials

Course Description: This course covers the operation and diagnosis of manual transmission/transaxle issues, clutch diagnosis, Transmission removal, and rear axle diagnosis and repair.

Course Outcomes	Course Assessments
Explore a career in the Drivetrain and Axle Specialty	Complete reading assignments, homework assignments,
Discuss ASE Manual Transmission and Axle Certification	work book Assignment, online internet and classroom
Discuss use of Specialty Transmission and Axle Tools hand tools.	examinations, and NATEF Task list projects.
Discuss the use of Manual Transmission/ transaxle, and Drive Axle system tools, and specialized equipment.	
Discuss Automotive Shop Engine Transmission and Axle safety practices.	
Documentation of Automotive service repair orders and use of computer systems to achieve this.	
Discuss Manual Transmission/ Transaxle, and Drive Axle system function and operation.	

Connections to Program Assessment (Course-Embedded Measures)

Course Activities

Week	Date	Class Topics/Reading Due	Assignments Due	Assessments
1	Jan/17	Martin Luther King Day	Holiday	
	Jan 18	Chapter 30		
	Jan/21	Last day to add/drop w/o "W"		
2	Jan/24	Continue chapter 30		Chapter 30 quiz
3	Jan 31	Chapter 31		
4	Feb 7	Continue Chapter 31		Chapter 31 Quiz
5	Feb14	Chapter 32		
	Feb 21	President's Day	Holiday	
6	Feb 22	Continue Chapter 32		
	Feb 25	Spring Graduation Petition due		
7	Feb 28	Chapter 33		Chapter 32 Quiz
8	Mar 7-11	Mid-terms		
9	Mar 14-18	Spring break		
10	Mar 21			
11	Mar 28	Continue Chapter 33		Chapter 33 Quiz
	Mar 31	Last day to withdraw with "W"		
12	Apr 4	Chapter 34		
13	Apr 11	Continue Chapter 34		Chapter 34 Quiz
14	Apr 18	Chapter 35		
15	Apr 25	Chapter 35 Continued		Chapter 35 Quiz
16	May 2	Finals review		
17	May 9-12	Finals		
	May 13	Grades due to the Registrar		
	May 13	Graduation		

Grading Plan

Homework (Workbook)	20%
Mid-term	15%
Final Exam	15%
Quizzes	25%
Class Participation	25%

A = 100-90%
 B = 89-80%
 C = 79-70%
 D = 69-60%
 F = 59% or less

Grading Policy

Students must do their own work. Cheating and plagiarism are strictly forbidden. Cheating includes (but is not limited to) plagiarism, submission of work that is not one's own, submission or use of falsified data, unauthorized access to exams or assignments, use of unauthorized material during an exam, or supplying or communicating unauthorized information for assignments or exams.

Participation

Students are expected to attend and participate in all class activities. Points will be given to students who actively participate in class activities including guest speakers, field trips, laboratories, and all other classroom events.

Cell phone and headphone use

Please turn cell phones off **before** coming to class. Cell phone courtesy is essential to quality classroom learning. Headphones must be removed before coming to class.

Attendance Policy

Students are expected to attend all class sessions. A percentage of the student's grade will be based on class attendance and participation. **Students are expected to attend and participate in all class activities- as listed above, as it is 25% of the grade.** Absence from class, regardless of the reason, does not relieve the student of responsibility to complete all course work by required deadlines. Furthermore, it is the student's responsibility to obtain notes, handouts, and any other information covered when absent from class and to arrange to make up any in-class assignments or tests if permitted by the instructor. Incomplete or missing assignments will necessarily affect the student's grades. Instructors will report excessive and/or unexplained absences to the Counseling Department for investigation and potential intervention. **Instructors may drop students from the class after three (3) absences unless prior arrangements are made with the instructor to make up work and the instructor deems any excuse acceptable.**

Study Time Outside of Class for Face-to-Face Courses

For every credit hour in class, a student is expected to spend two hours outside of class studying course materials.

Study Time for Hybrid or Blended Courses

For a hybrid or blended course of one credit hour, a student is expected to spend three hours per week studying course materials.

Study Time for Online Courses

For an online course of one credit hour, a student is expected to spend four hours per week studying course materials.

Academic Integrity

Integrity (honesty) is expected of every student in all academic work. The guiding principle of academic integrity is that a student's submitted work must be the student's own. Students who engage in academic dishonesty diminish their education and bring discredit to the University community. Avoid situations likely to compromise academic integrity such as: cheating, facilitating academic dishonesty, and plagiarism; modifying academic work to obtain additional credit in the same class unless approved in advance by the instructor, failure to observe rules of academic integrity established by the instructor. **The use of another person's ideas or work claimed as your own without acknowledging the original source is known as plagiarism and is prohibited.**

Diné Philosophy of Education

The Diné Philosophy of Education (DPE) is incorporated into every class for students to become aware of and to understand the significance of the four Diné philosophical elements, including its affiliation with the four directions, four sacred mountains, the four set of thought processes and so forth: Nitsáhákees, Nahát'á, Íina and Siih Hasin which are essential and relevant to self-identity, respect and wisdom to achieve career goals successfully.

At NTU's Zuni Campus, the A:shiwí Philosophy of Education offers essential elements for helping students develop Indigenous and Western understandings. Yam de bena: dap haydoshna: akkya hon detsemak a:wannikwa da: hon de:tsemak a:ts'umme. *Our language and ceremonies allow our people to maintain strength and knowledge.* A:shiwí core values of hon i:yyułashik'yanna:wa (respect), hon delank'oha:willa:wa (kindness and empathy), hon i:yyayumola:wa (honesty and trustworthiness), and hon kohol lewuna:wedyahnan, wan hon kela i:tsemanna (think critically) are central to attaining strength and knowledge. They help learners develop positive self-identity, respect, kindness, and critical thinking skills to achieve life goals successfully.

Students with Disabilities

Navajo Technical University is committed to serving all students in a non-discriminatory and accommodating manner. Any student who feels that she or he may need special accommodations should contact the Accommodations Office (<http://www.navajotech.edu/student-services#accomodations-services>) in accordance with the university's Disability Accommodations Policy (see http://www.navajotech.edu/images/about/policiesDocs/Disability_Exhibit-A_6-26-2018.pdf).

Email Address

Students are required to use NTU's email address for all communications with faculty and staff.

Final Exam Date: May 9th 2022