



**Course Title: AUT 215-1
Engine Repair**

**Credit Hours:
Semester: Spring 19
Cap: 15**

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

Modality: **Face-to-Face**

Class Location and Meeting Times: Trades Building T/R 1:00-4:00

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 shoes/boots, safety eyewear, NTU Automotive work shirt (Long or short sleeve), notebook, pen or pencil.

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), Íina (implementing), and Siihasin (reflection), students acquire quality education in diverse fields, while preserving cultural values and gaining economic opportunities

Course Description: Students will learn to diagnose and repair engine mechanical problems.

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

Objectives

After successfully completing this course:

1. Students will understand the operation of an engine.
2. Students will understand the procedures for testing an engine.
3. Students will be able to demonstrate engine removal and disassembly.
4. Students will be able to inspect and repair/replace damaged/worn parts.
5. Students will be able to correctly reassemble and install an engine.

COURSE OUTCOMES	COURSE MEASUREMENTS
A strong understanding of engine operation	Complete reading assignments, homework assignments, exams, and quizzes.
A strong understanding of shop safety	
A strong ability to correctly remove and disassemble engines	
A strong ability to correctly inspect an engine	
A strong ability to correctly assemble and run an engine	

Connections to Program Assessment (Course-Embedded Measures)

Week	Date	Chapters	Assignments	Quizzes
1	Jan 17	Martin Luther King Day	Holiday	
	Jan 18	Read Ch 12	Section Quizzes	
	Jan 21	Last day to add/drop w/out W		
2	Jan 24	Read Ch 13	All online chapter work	Ch 12 Quiz
3	Jan 31	Ch 14	All online chapter work	Ch 13 Quiz
4	Feb 7	Ch 15	All online chapter work	Ch 14 Quiz
5	Feb 14	Ch 16	All online chapter work	Ch 15 Quiz
	Feb 21	President's Day		
6	Feb 22	Ch 17	All online chapter work	Ch 16 Quiz
	Feb 25	Spring Graduation Petition Due		
7	Feb 28	Ch 18	All online chapter work	Ch 17 Quiz
8	Mar 7-11	Mid Terms		
9	Mar 14-18	Spring Break		
10	Mar 21	Ch 19	All online chapter work	Ch 18 Quiz
11	Mar 28	Ch 20	All online chapter work	Ch 19 Quiz
	Mar 31	Last day to withdraw with a "W"		
12	Apr 4	Ch 21	All online chapter work	Ch 20 Quiz
13	Apr 11	Ch 22	All online chapter work	Ch 21 Quiz
14	Apr 18		All online chapter work	Ch 22 Quiz
15	Apr 25	Finals Review		
16	May 2	Finals Review		
17		Finals		
	11/20	Final Grades Due		
	11/21	Fall Graduation		

Grading Plan:

Homework	10%	A = 100 - 90%
Mid-term	10%	B = 89 - 80%
Final Exam	10%	C = 79 - 70%
Quizzes	10%	D = 69 - 60%
Class Participation	25%	F < 60%
NATEF Tasks	35%	

Course Policies

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#accommodations-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 10th 2022