Steering and Suspension HATN 114N

Essential Questions:

What is the function of the steering and suspension system? What are the possible outcomes if these systems are not serviced properly? Would you want to be reasonable for these outcomes? What steps are you going to take to make sure your job is done properly?

Required Textbook(s):

Automotive Technology Principles, Diagnosis, and Service Fifth edition James D. Halderman 978-0-12-399461.2

Supplemental Materials:

Notebook and something to write with Assigned Tool kit .IN.Honda

Course Expectations:

We understand that sometimes "life happens" and you cannot get to class on time or at all but, all students are expected to attend each class for the full amount of time scheduled. It is an important part of your education and we want you to be successful.

All lectures and labs begin on the hour.

Tardiness: All students will receive 2 "late entrances" to class. On the third time that student will not be allowed into class and will receive a zero for that class. This will result in an absence and n ate e02 4t t2 (s)-2 (.)7 (T)6 (his)- As the

In this section, you must include your <u>late work policy</u> <u>AND your make up</u> <u>policy</u> unless your department has specific requirements posted below . You should also list other expectations that will help students succeed in your course and allow your classroom to function smoothly .

- This class uses mostly live work for the lab. These jobs are booked, on average, 2 weeks out. If you cannot make a lab, it is important you let me know so I can schedule accordingly.
- As a rule, there is no make -up work. If you are not going to make a class be sure, your homework assignment has been completed. Most assignments will be on Canvas. If it is a paper assignment, include it in the email stating you are going to be absent and you will receive full credit. Quizzes can be made up only if the was an email notifying the instructor of the absent. This must be made up prior to the next meeting of the class. It is the stu dent s responsibility to do this.
- Most homework assignment will be end of chapter questions and will be on Canvas. Quizzes will be based on those homework assignments and giving in class on paper.
- · All powerpoint/class presentations on Canvas for you to review
- Should you have any question or concern you can email me. I normally will return an email within 48 hours.

Grading:

Include a grade weight breakdown showing the specific components of the student's final grade. For example:

- 10% -- Homework from text book
- 10% -- Quizzes
- 20% -- Daily lab eval/Task sheets, please see the Daily Lab Evaluation sheet
- 20% -- Mid-term Exam
- 20% -- Final Exam
- 20% -- Lab Final Exam

Grades will be assigned according to the department scale:

Point/letter grade equivalents:

100-94: A 93-90: A-89-87: B+ 86-84: B 83-80: B-

- 79-77: C+ 76-74: C
- NCC Honda PACT

73-70: C-69-67: D+ 66-64: D 63-60: D-Below 60: F

Available Support Services

Tutoring, The Writing Center, Available Academic Services: The AcademicSuccess Center | Room 100 offers academic support services which are open toall NCC students looking for additional help with their college assignments. Mathtutoring and writing assistance ar e available. The Writing Center is for any studentseeking assistance with the writing process for any class, not just CollegeComposition.For more information and to view the tutoring schedules viewhere:http://www.nashuacc.edu/student

Classroom Accommodations: Students who have a documented disability (physical, learning, or mental health) and require reasonable classroom accommodations must meet with the Disabilities Support Coordinator to set up a NCC Reasonable Accommodation Plan (RAP). If you had an IEP or 504 in high school, you may qualif.3 (c).1 (o)re551 ()]TJ

violence and exploitation of individuals per federal statute and in compliance with established policies and procedures at Nashua Community College. If you have been subjected to sexual misconduct, violence or exploitation, we encourage you to c ontact your NCC Title IX representative Lizbeth Gonzalez, 603-578-8900 x1528_ or <u>Igonzalez@ccsnh.edu</u> for support and assistance. You may also contact Bridges, the local crisis center, for free and confidential services at their 24hr support line 603- 883-3044. You do not need to be in crisis to call.

Additional information including resources can be found at:

New Hampshire Coalition Against Domestic and Sexual Violence: https://www.nhcadsv.org/uploads/1/0/7/5/107511883/nhcadsv_catchment_ma p.pdf_

uSafeUS https://usafeus.org/app3/webviewer.html

Bridges https://www.bridgesnh.org/

Additional Student Support Services: for NCC students can be found at ht Information on additional support services tp://nashuacc.edu/student-servewps/apdenr may withdraw a student from the course

communication includes, but is not limited to, policy announceme nts, registration and billing information, schedule changes, emergency notifications and other critical and time sensitive information.

- Students should also check their college email account to be sure that they are current with all email communication fr om their faculty.
- The student email account/address should be the only e- mail address students use to send email to faculty and College personnel so that student email is recognized and opened.
- This service is provided exclusively to the students of NCC. Accounts are for individual use only, and are not transferable or to be used by any other individual.
- Students using their College email account do so under the policies set forth in the Student Handbook under "Student Computer Conduct Code".

Sensitive Materials Policy: During the semester, in order to cover certain academic topics, there may be occasions to view or discuss material which may not meet the student's own personal definition of appropriateness. At such times, every student has the right to decide not to participate. Every effort will be made by the instructor to notify students in advance of when such sensitive material will be used so that students can make alternative arrangements. Faculty will guide students in the identification of alter nate learning opportunities consistent with relevant course objectives so that students opting out of scheduled "sensitive" learning experiences will not be penalized academically in any way. Please note the opportunity to leave the classroom discretely is always available to each student when such sensitive material is being discussed. The student then has the responsibility before the next class meeting to inform the instructor as to the reason for leaving.

Plagiarism Policy: Plagiarism is a serious viol ation of a student's academic integrity and the trust between a student and his or her teachers. Plagiarism is the act of a person presenting another person's work as if it were his or her own original work. Such acts of plagiarism include , but are not lim ited to:

- 1. A student submitting as his or her own work an entire essay or other assignment written by another person.
- 2. A student taking word for word a section or sections of another person's work without proper acknowledgment of the source and that the mate rial is quoted.
- A student using statistics or other such facts or insights as if these were the result of the student's efforts and thus lacking proper acknowledgment of the original source.
- 4. The paraphrasing of another person's unique work with no acknowle dgment of the original source.
- 5. Copying another student's work on a quiz or test.

When a student is found to have plagiarized an academic assignment , it will be up to each instructor to determine the penalty. Depending on the severity of the

This schedule is subject to change. In the event of class cancellation due to inclement weather or instructor illness, students are directed to the course Canvas site for an alternate assignment for that da

Rationale:

Develop safe work habits and respect for shop equipment and personnel.

Course Description:

What kind of specialty equipment should I be using while performing work of this nature?

What could be the result of not using the proper equipment or safety precautions while performing work of this nature?

Required Textbook(s):

Automotive Technology: Principles, Diagnosis and Service; 5th Ed. 2016

ISBN#9780133994612

Supplemental Materials:

Access to Electude.

absence. The instructor will determine eligibility and provide an appropriate assignment. Any approved assignment must be completed and turned in as directed. There is no provision for make-up of a midterm exam, final exam, or lab practical exam.

Homework:

Self-study assignments are required. Some are listed in the course calendar, some will be assigned throughout the semester. Chapter end questions assigned per the course calendar are due at the beginning of the first class meeting of the week assigned. Chapter-end questions should include the question number, answer letter as well as the related answer text. Please include the chapter number on your answer sheet.

Scheduled homework assignments are combined into the equivalent of two test grades. Assignments passed in one class late will be accepted at reduced credit. Assignments will not be accepted more than one class late.

Any assignment turned in via e-mail will be accepted provided it is mailed prior to the due date/time.

Grading:

Please refer to your department grading scale.

Note: If you give a participation grade, you will need to provide students with a rubric that explains how this grade is calculated. Participation can count for no more than 15% of the final course grade.

Available Support Services

Available Support Services

Tutoring ,The Writing Center, Available Academic Services: The Academic Success Center | Room 100 offers academic support services which are open to all NCC students looking for additional help with their college assignments. Math tutoring and Writing assistance are available. The Writing Center is for any

accommodations must meet with the Disabilities Support Coordinator to set up a

Additional Student Support Services: Information on additional support services for NCC students can be found at <u>http://nashuacc.edu/student-services/where-to-find-assistance-at-ncc</u>

Department Policies

Cellphones, laptops, tablets and other electronic equipment should be shut off during class unless previously approved by instructor.

Required Tools:

All students are required to possess hand tools per the *Required Tool List*. Each student is expected to have the tools available for each lab session. The instructor reserves the right to refuse admission to (or dismiss from) lab any student who is not regularly prepared with the required tools. All tools should be at the college no later than the first Monday in October.

Students Who Wish to Provide "Live" Shop Work

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HATN185 Course Calendar (Tentative) Spring 2020

Week #	Week of	LECTURE/DISCUSSION	LAB	ASSIGNMENT
	Jan 20 MLK day	Chapter 18	Shop Safety	Due THU - Ch. 18 quiz questions
1		Gasoline Engine Operation,	Engine fundamentals	
		Parts and Specification	Compression Testing	
		Chapter 19	Diesel engine design,	<u>Due TUE</u> –
÷		ngine Operation	operation and troubleshooting	Due THU – Ch. 19 quiz questions
2	Feb 3	Chapter 24	Vac60Td ()T28.36148.3	
3		Intake and Exhaust Systems		

	HATN221N Honda Heating and A/C Spring 2020	
Department	Industry and transportation	
Instructor	Jason Felton	
NCC Email	jfelton@ccsnh.edu	
Telephone Number	(603)578-8950	
Office Hours	Monday 2:00 – 4:00 Tues and Thurs 2:00 – 3:00	
Office Location	Automotive Office	
Class Days/Meeting Time	Class Tues and Thurs 3:00 – 3:50	
	Lab Monday 8:00 – 1:50	
Class Location	Lecture H286	
	Lab Auto Building	

Rationale:

Climate control systems maintain a comfortable environment for the drive and passage of vehicles. This adds to the safety of the driver. These systems also maintain the proper operating temperature of the vehicle's engine. Servicing the AC system requires a license which is built into this course. Completion of the course will give the student the skill to diagnosis these systems and the license to repair them. Making the student much move valuable to an employer.

Course Description:

The theory and oper

The student will learn the theory of operation of automotive heating, ventilation and air conditioning systems including environmental concerns.

The student will learn proper diagnosis and repair procedures for automotive heating and ventilation systems.

The student will learn the proper diagnosis and repair procedures for Automotive air conditioning systems.

The student will learn to properly diagnose and repair manual heating, Ventilation and air conditioning controls.

The student will learn to properly diagnose and repair automatic climate Control system controls.

The student will learn the proper procedures for the safe handling of refrigerants used in automotive air conditioning systems.

Essential Questions:

What is the most effective way to repair the vehicle? Cost vs. Time vs. Risk What is the root cause of the failure you are repairing? Are there updated parts to address this issue?

Required Textbook(s):

Today's Technician Automotive Heating & Air conditioning Mark Schnubel ISBN: 978-1-305-49760-3

Supplemental Materials:

Notebook and something to write with Tool kit

Course Expectations:

We understand that sometimes "life happens" and you cannot get to class on time or at all but, all students are expected to attend each class for the full amount of time scheduled. It is an important part of your education and we want you to be successful.

All lectures and labs begin on the hour.

Tardiness: All students will receive 2 "late entrances" to class. On the third time that student will not be allowed into class and will receive a zero for

that class. This will result in an absence and be counted towards the attendance policy for the AF grade. 1 ()-10 (r)1 ()-10 ((r)1 (2 Td [(a-10 s)-2 (w)-9 ((r)1 (i)10 (llw)-9 m-1.7 (i (a)3 (s (l)(r)-9 (t)9 (c)1 (2 1-20 (a)3 (s) Grades will be assigned according to the following department scale:

- A = 100 94 A = 93 90 B = 89 87 B = 86 84 B = 83 80 C + = 79 77 C = 76 74 C = 73 70 D + = 69 67 D = 66 64 D = 63 60
- F = 59 or Below

Available Support Services

Tutoring, The Writing Center, Available Academic Services: The Academic Success Center | located in the library offers academic support services which are open to all NCC students looking for additional help with their college assignments. Math tutoring and writing assistance are available. The Writing Center is for any student seeking assistance with the writing process for any class, not just College Composition. For more information and to view the tutoring schedules view here: *permission* from the instructor or the Disabilities Support Coordinator may audio record class lectures - *for educational purposes only*. Students who audio record class lectures are prohibited from selling, transcribing, or distributing the recordings in *any manner* and are asked to delete the recordings when it is no longer essential for their learning purposes.

Title IX Statement: Classroom instructors at Nashua Community College are encouraged to create and maintain a safe learning environment in which students feel able to share opinions and related life experiences in classroom discussions, in written work, and in meetings with professors. To the greatest extent possible, this information will be kept private. However, staff and faculty have a legal obligation to report information concerning sexual misconduct, violence and exploitation of individuals per federal statute and in compliance with established policies and procedures at Nashua Community College. If you have been subjected to sexual misconduct, violence or exploitation, we encourage you to contact your Title IX representative Lizbeth Gonzalez, 603-578-8900 x1528 or Igonzalez@ccsnh.edu test 7ow (29.5 (u)]TJ 10.5/TT2-3 Tf -29.5 xu)-2 (a)(For (aamp absence. Documentation of said absence may be required by the professor.

Students are advised that absence from class, for whatever reason, does not excuse them from meeting course requirements and objectives.

If a student is absent more than six hours (for a four-credit course, the total is eight hours) of class time during the term or semester, the instructor

will be taken 1) verbal warning; 2) meeting with instructor and department chair; 3) referral to Vice President of Academic Affairs and/or removal from the course with AF grade.

An "AF" grade is calculated in the GPA as an "F". Students should refer to the student handbook for additional information about the AF policy.

Canvas: All instructors at NCC will be using Canvas. Canvas is the online learning management system used by instructors and learners at Nashua Community College. Instructors may post syllabi, course related documents and grades in Canvas. Students may be required to submit assignments and/or take assessments through Canvas and/or participate in discussion boards.

24/7 Canvas Support: To access support through email, phone or chat

Click on the icon. Students can also find guides, videos, and a Canvas community by clicking on the *CCSNH Resources* icon on the tool bar at the left of the Canvas screen then choosing Canvas Resources.

To directly link to Canvas on Deman(.)]TJ 0 e87h.003eDTo1 C28 0 TdS-2 (m)-12-0 vst tlyom

- 2. A student taking word for word a section or sections of another person's work without proper acknowledgment of the source and that the material is quoted.
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	Honda Automotive Engine Repair HATN228N Spring 2020
Department	Industry and Transportation
Instructor	Tim Hogan
NCC Email	thogan@ccsnh.edu
Telephone Number	603-578-6885
Office Hours	Tues+Thurs 3:00-3:50 Wed+Fri 2:00-2:50
Office Location	Automotive Building, new office
Class Days/Meeting Time	

Required Textbook(s):

Automotive Technology Principles, Diagnosis, and Service Fifth edition James D. Halderman 978-0-12-399461.2

Supplemental Materials:

Notebook and something to write with Assigned Tool kit

Course Expectations:

We understand that sometimes "life happens" and you cannot get to a spectral to attend each class for the full amount ob7Td [(T)- (b7(e u)-27)7.3 ()5.17 (I)-4.6 (e Ex)2.(c)-3 (h c)7 62tp ()31.272 -

Tutoring, The Writing Center, Available Academic Services: The Academic Success Center | Room 100 offers academic support services which are open to

Additional information including resources can be found at:

New Hampshire Coalition Against Domestic and Sexual Violence: <u>https://www.nhcadsv.org/uploads/1/0/7/5/107511883/nhcadsv_catchment_ma</u> p.pdf verbal warning; 2) meeting with instructor and department chair; 3) referral to Vice President of Academic Affairs and/or removal from the course with AF grade.

An "AF" grade is calculated in the GPA as an "F". Students should refer to the 20.8 (A)24.63 (o)4.8

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- 1. A student submitting as his or her own work an entire essay or other assignment written by another person.
- 2.

Credit Hour Guidelines

- 1. A credit hour shall be the equivalent of one (1) hour of classroom or direct faculty instruction and a minimum of two (2) hours of out-of-class student work each week for 15 or 16 weeks.
- 2. A credit hour shall be allocated based on the following:

Category	Contact Hours per Week	Contact Hours per Sem. (based on minimum 15 week semester)
Class	1	15
Laboratory	2 or 3	30-45
Clinical	3 to 5	45-

Week #	Month /day	LECTURE/DISCUSSION	ASSIGNMENT DUE	Target Competencies
1	Tuesday Jan 21	How to buy a car To rebuild or not to rebuild Shop rules Chapter 1 and 2		Lab safety, Engine condition diagnosis
2	Jan 28	Chapter 26 Engine Condition Diagnosis	Ch. 26 Chapter Quiz 1-10	In vehicle servicing Chapter 27
3	Feb 4	Chapter 28 Engine Removal and Disassembly	Ch. 28 Chapter Quiz 1-10	Engine removal and disassembly
4	Feb 11	Chapter 29 Cleaning, Inspection and Crack Detection	Ch. 29 Chapter Quiz 1-10	Cleaning, Inspection and Crack Detection. Measure cylinders Order Parts
5	Fed 18	Chapter Balancing and Blueprinting		CC'ing a head continued work Send blocks to machine shop

 \star Targeted competencies refer to the established course competencies listed above.

This schedule is subject to change. In the event of class cancellation due to inclement weather or instructor illness, students are directed to the course Canvas site for an alternate assignment for that day.