Undercarriage/Powershift Transmissions And Hydraulics Lab

DSLT-224L

Spring 2019  Section 302  6 Credits  01/14/2019 to 05/16/2019  Modified 01/08/2019

Contact Information

Instructor: Lonnie Raaum

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Office: 125
Phone: 208-769-3457

Office Hours
Monday, Tuesday, Wednesday, Thursday, 6:00 AM to 7:00 PM, 125

Meeting Times

Section 01
Monday, Tuesday, Wednesday, Thursday, 7:00 AM to 9:50 PM, RM 123

Section 02
Monday, Tuesday, Wednesday, Thursday, 12:30 PM to 3:30 PM, RM 123

Description

This course gives students hands-on experience in a shop setting. It is designed to provide opportunities for application of subjects covered in the DSLT_224 theory class. Instruction will utilize a variety of mock-ups, training aid, components, and limited live customer work.

Materials

TEXT: Various shop manuals

SUPPLIES: Laboratory supplies will include tools, coveralls, leather boots, eye protection, three-ring binder, notebook, and gloves.

Outcomes

General Education

A college education is designed to provide students with the opportunity to obtain a broad base of information and skills, not just prepare students for one career. The General Education Abilities at NIC represent learning experiences designed to provide the
knowledge, skills, and attitudes necessary to function well in society. Nine general education abilities have been developed which are to be obtained and measured during the student's time at NIC. These nine abilities are: (1) Aesthetic Response; (2) Communication; (3) Critical/ Creative Thinking and Problem Solving; (4) Historical, Cultural, and Global Awareness; (5) Information Literacy; (6) Mathematical, Scientific, and Symbolic Reasoning; (7) Social Responsibility/Citizenship; (8) Valuing/Ethical Reasoning; and (9) Wellness.

While many of these nine abilities are incorporated in your courses to varying degrees, the development of technical skills is the primary focus of this program. Specific portions of this program may incorporate General Education abilities; for example, Critical Thinking skills when troubleshooting, Communication skills when practicing customer service, or Information Literacy skills when accessing information resources. Course level assessment of these abilities will occur as appropriate.

**Assessment**

EVALUATION OF STUDENT PERFORMANCE:

Grades are assigned based on scores received on lab tests and lab check off sheets, notebook, lab journal, attendance, work habits, clean up, tool room co-operation, safety, and lab participation with customer work and related shop projects.

Students are required to maintain a daily lab journal that provides a brief description of the activities they participate in each lab day. Lab journal, check off sheets, hand-outs and notes are to be neatly organized and kept in a three ring binder.

The compilation of these assignments, minus excessive absences beyond what is allowed for the semester, will result in a letter grade based upon the following grade scale.

- **94%-100%** (940-1000 pts.) = A
- **90%-93.9%** (900-939 pts.) = A-
- **87%-89.9%** (870-899 pts.) = B+
- **84%-86.9%** (840-869 pts.) = B
- **80%-83.9%** (800-839 pts.) = B-
- **77%-79.9%** (770-799 pts.) = C+
- **74%-76.9%** (740-769 pts.) = C
- **70%-73.9%** (700-739 pts.) = C-
- **67%-69.9%** (670-699 pts.) = D+
- **64%-66.9%** (640-669 pts.) = D
- **60%-63.9%** (600-639 pts.) = D-
- **0%-59.9%** (0-599 pts.) = F

**ASSIGNMENT OF PERCENTAGE VALUE**

- Lab check-off sheet competencies = 300 pts
- Work ethic = 150 pts
- Clean up participation = 100 pts
- Tool room participation = 150 pts
- Lab participation = 300 pts

**TOTAL POSSIBLE**

= 1000 pts

**NOTE:** No Participation points given if student is absences and ½ participation points if student is tardy.

**Course Policies**

**COURSE POLICIES:**

No profanity allowed in the classroom or lab
No sexist, racial, or ethnic jokes or comments allowed.

No tobacco products are to be used in the building- NO CIGARETTES, PIPES, CIGARS, OR CHEWING TOBACCO!!!!

No fighting, wrestling, or other physical aggressiveness allowed.

No unsafe practices or improper use of equipment allowed at anytime.

ANY ONE OF THE ABOVE INFRACTIONS IS CAUSE TO BE EXPELLED FROM THIS PROGRAM!!

No cars allowed in the shop or on the apron.

ATTENDANCE POLICY:

1. ATTENDANCE IS MANDATORY AND DIRECTLY AFFECTS YOUR GRADE. It is assumed that adult college students will not miss classes. Attendance is being physically present from the beginning of the class session to the end of the class session. Regular attendance to this class is mandatory and vitally important to your success as a student in the Diesel Technology program as well as achieving a successful career as a diesel technology technician once you graduate. Clean-up and lab participation as well as work ethic cannot be evaluated if you are not here. Missed classes add up quickly and can greatly affect your ability to learn as well as your grade!! The first 6 absences will not affect your grade. (but you must call your instructor as early as possible to let them know you will not be in that day).

2. The first 6 absences will not affect your grade. (but you must call your instructor as early as possible to let them know you will not be in that day)

3. Each absence accrued after the allowable 6 listed above will take 10 percentage points off of your final grade average.

Example: If you were a "B" student with an 85 grade average, and you miss....

1-6 classes missed       = 85 - 0       = 85     Grade B
7 classes missed         = 85 -10%   = 75     Grade C
8 classes missed         = 85 -20%   = 65     Grade D
9 classes missed         = 85 -30%   = 55     Grade F

** Missed classes add up quickly and can greatly affect your final grade!!! The instructor has discretion regarding excessive attendance issues with options including removal from the program or an incomplete.

5. DEFINITION OF AN ABSENCE: Student is not present in the class or lab room for any reason, except for school authorized events or previous instructor notification and approval. Students arriving in class/lab 15 or more minutes late are considered to be absent.

6. DEFINITION OF A TARDY: Student has arrived in the class or lab room after the instructor has started the class session. 2 tardies = 1 absence.

7. Extended illness, emergencies, or extenuating circumstances will be dealt with on an individual basis.

Violations of academic integrity may result in failure of an assignment, failure of the course, or more serious sanctions.

"For a complete explanation of the North Idaho College Statement on Academic Honesty & Academic Integrity please refer to Policy 5.06 & Procedure 5.06.01: http://www.nic.edu/policy/"
Academic Dishonesty: Violations of academic integrity involve using or attempting to use any method that enables an individual to misrepresent the quality or integrity of his or her work at North Idaho College. These violations include the following:

- Cheating: using or attempting to use unauthorized materials, information, or study in any academic exercise.
- Fabrication: falsifying or inventing any information or citation in an academic exercise.
- Plagiarism: knowingly representing the words or ideas of another as one’s own in an academic exercise.
- Violation of Intellectual Property: stealing, altering, or destroying the academic work of other members of the community or the educational resources, materials, or official documents of the college.
- Facilitating Academic Dishonesty: knowingly helping another to attempt to violate any provisions of this policy.

Schedule

Application of subjects covered with schedule in the DSLT-224 theory class.

Additional Items

Rating Scale:

4- Skilled-can perform independently with no additional training
3-Moderately skilled- has performed independently during training program. Limited additional training may be required.
2-Limited Practice- Has practiced during training program, additional training is required to develop skills.
1-Exposure Only or No Exposure-general information provided with no practice time, close supervision needed and additional training is required.

Rating Scale for Lab Work Ethic and Safety Participation:

Points possible each day
5 Excellent
4 Good
3 Fair
2 Poor
0 Absent

Rating Scale for Clean-up Participation

Points possible each day
5 Excellent
4 Good
3 Fair
2 Poor
0 Absent

LAB PARTICIPATION

Lab participation is expected! Participation can take the form of being an active member of the group working on a specific project as well as working on individual projects. Complete participation is fully expected during daily clean up and shop organization.
Cell Phones: Disruptive cell phone use will not be allowed in the lab. Students are expected to make or return phone calls during break-time.

EXTRA CREDIT

There are no extra credit opportunities available in this class.

ASSISTANCE

I am more than willing to help or assist students with materials presented in class that they do not understand. If you don't feel like bringing something up in class for clarification I encourage you to ask me during my office hours. Remember, I am here to facilitate your educational success in any way I can.

ACADEMIC HONESTY

Each student is responsible for performing academic tasks in such a way that honesty is not in question. If there is proof that academic honesty has been violated by cheating, plagiarism, or by any other means, the instructor may take appropriate action, including the refusal of course credit.

GENERAL EDUCATION ABILITIES ADDRESSED

In conjunction with North Idaho Colleges general education mission and goals, nine general education abilities have been developed which are to be obtained and measured during the students time at NIC. These nine abilities are (1) Aesthetic response; (2) Communication; (3) Critical/Creative Thinking and Problem Solving; (4) Historical, Cultural, Environmental, and Global Awareness; (5) Information Literacy; (6) Mathematical, Scientific, and Symbolic Reasoning; and (9) Wellness. A brief description is given for the four abilities, which are an integral part of this course.

MATHMATICAL, SCIENTIFIC, AND SYMBOLIC REASONING:

The student will demonstrate the ability to apply mathematical and scientific reasoning to investigate and solve problems related to the fundamentals of hydraulic systems.

COMMUNICATION:

The student will demonstrate the ability to effectively send, respond to, and write communications appropriately to demonstrate a thorough knowledge of hydraulic principles, hydraulic component operation, and hydraulic system maintenance practices.

CRITICAL/CREATIVE THINKING AND PROBLEM SOLVING:

Students will demonstrate the ability to analyze and evaluate information and possible customer complaints as related to hydraulic systems and demonstrate the ability to apply selected or designed strategies to solve problems logically and systematically.

VALUING/ETHICAL REASONING:

Students will demonstrate the ability to apply ethical decision making skills with regards to others' value perspectives, applying what one knows, believes, and understands in order to determine the correct actions to take when proposing and making customer repairs.

COURSE REQUIREMENTS:
This course requires students to complete job competencies, (safely and to the best of their ability), that are listed on a lab check off sheet provided by the instructor. The student is also required to maintain a lab journal that will provide a brief description of activities the student participated in on each lab day.

PREREQUISITES:

Compliance with North Idaho College’s admission standards and prior

Successful completion of the first year of the Diesel Technology Program is required or instructor approval.

Institutional Policies

Academic Dishonesty

Violations of academic integrity involve using or attempting to use any method that enables an individual to misrepresent the quality or integrity of his or her work at North Idaho College. These violations include the following:

- Cheating: using or attempting to use unauthorized materials, information, or study in any academic exercise.
- Fabrication: falsifying or inventing any information or citation in an academic exercise.
- Plagiarism: knowingly representing the words or ideas of another as one’s own in an academic exercise.
- Violation of Intellectual Property: stealing, altering, or destroying the academic work of other members of the community or the educational resources, materials, or official documents of the college.
- Facilitating Academic Dishonesty: knowingly helping another to attempt to violate any provisions of this policy.

Our department strongly endorses the above code, believing that no learning can take place if a strong commitment to academic integrity is compromised. Any unethical behavior, including any violation of academic integrity or instance of plagiarism, may result in a grade of zero for an assignment in question or failure of the course.
Violations of academic integrity may result in failure of an assignment, failure of the course, or more serious sanctions.

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Student Code of Conduct
The Student Code of Conduct applies to any student enrolled at North Idaho College. This includes, but is not limited to, face-to-face classes and Internet classes.

NIC shall maintain a Student Code of Conduct that specifically addresses prohibited behavior and assures due process for alleged violations. The Code of Conduct shall make clear possible sanctions for such actions. Policy Manual [http://www.nic.edu/websites/default.aspx?dpt=121&pageId=] (See 5.06)

Disability Support Services and the Americans with Disabilities Act (ADA)

In compliance with the Americans with Disabilities Act of 1990 and Section 504/508 of the Rehabilitation Act of 1973, North Idaho College provides accommodations to eligible students who experience barriers in the educational setting due to learning, emotional / mental, physical, visual, or hearing disabilities. Instructors will provide accommodations to students only after having received a Letter of Accommodation from Disability Support Services (DSS).

If a student would like to request accommodations, he or she must contact DSS so that a Letter of Accommodation may be sent to the instructor. Students requesting accommodations should contact DSS as early in the semester as possible to avoid delay of accommodation due to student load. Accommodations are not retroactive. DSS provides academic accommodations, access, assistance and services at NIC and at the North Idaho Consortium of Higher Education campus.

Contact:
[Disability Support Services Website](http://www.nic.edu/websites/default.aspx?dpt=121&pageId=)  
(208) 769-5947

Withdrawal
Please check the [NIC Calendar](https://www.nic.edu/calendar/) for the last day students can withdraw from full-length courses.

Instructor-Initiated Withdrawal: An instructor has the right to withdraw a student for academic reasons. For more information, see the [Instructor-Initiated Withdrawal Procedure](https://www.nic.edu/modules/images/websites/121/file/section5/5.04.02procedure.pdf).

Financial Aid Satisfactory Progress (SAP): Federal Regulations require North Idaho College to establish Satisfactory Academic Progress standards (SAP) for all financial aid recipients. The purpose of SAP standards are meant to ensure that students and academic institutions are held accountable to the taxpayer-funded federal student aid programs while students complete their academic goals in a timely manner. This process monitors student performance in all terms of enrollment, including terms in which the student did not receive financial aid. For more information, see the [Financial Aid Satisfactory Progress](http://www.nic.edu/websites/default.aspx?dpt=29&pageId=3025) website.

For more information on withdrawals, see the [NIC Student Accounts](http://www.nic.edu/websites/default.aspx?dpt=12&pageId=177) website.

Title IX

North Idaho College seeks to provide an environment that is free of bias, discrimination, and harassment. If you have been the victim of sexual harassment/misconduct/assault we encourage you to report this. If you report this to any college employee, (except for a licensed counselor or health care professional) she or he must notify our college’s Title IX coordinator about the basic facts of the incident (you may choose whether you or anyone involved is identified by name). For more information about your options at NIC, please go to: [www.nic.edu/titleIX](http://www.nic.edu/titleIX) or call (208) 676-7156

INSTITUTIONAL STATEMENT

Removal From Class For Non-Attendance: Attendance is based on your participation in this class. Failure to attend will result in your being removed from this class and may result in your financial aid award being reduced. You are responsible for confirming the accuracy of your attendance record.