

TRANSFERABILITY: None.

EVALUATIONS:

GRADING CRITERIA:

Students must complete all required courses with a grade point average of no less than 2.7 and no failing (F) grades. A passing grade in this course is a **minimum of 70%**.

Introduction to Machine Systems 80 / 240 hours = 33 %
of Semester 1 final mark

Projects Average = _____ x 30%

Class Assignments/Quizzes = _____ x 40%

Shop Total _____ x 30%

HES 121 VB12 FINAL MARK = _____ %

Alpha Grade	4-point Equivalent	Percentage Guidelines		Alpha Grade	4-point Equivalent	Percentage Guidelines
A+	4.0	90-100		C+	2.3	67-69
A	4.0	85-89		C	2.0	63-66
A-	3.7	80-84		C-	1.7	60-62
B+	3.3	77-79		D+	1.3	55-59
B	3.0	73-76		D	1.0	50-54
B-	2.7	70-72		F	0.0	00-49

COURSE SCHEDULE/TENTATIVE TIMELINE:

Overview of Engines

- Fuel Types
- Configurations
- Components and Their Locations
- Cooling
- Lubrication
- Nomenclature
- Accessories
- Safety
- Servicing

Overview of Electrical

- Components and Their Locations
- Configurations
- Nomenclature
- Belts and drives
- Safety
- Servicing

Overview of Hydraulic Systems

- Components and Their Locations
- Configurations
- Nomenclature
- Safety
- Servicing

Overview of Power Train

- Components and Their Locations
- Configurations
- Nomenclature
- Safety
- Servicing

Overview of Steering

- Components and Their Locations

- Configurations
- Nomenclature
- Safety
- Servicing

Overview of Brakes

- Components and Their Locations
- Configurations
- Nomenclature
- Safety
- Servicing

Overview of Wheels, Tires and Tracks

- Components and Their Locations
- Configurations
- Nomenclature
- Safety
- Servicing

Overview of Implements

- Components and Their Locations
- Configurations
- Nomenclature
- Safety
- Servicing

STUDENT RESPONSIBILITIES: This is an adult education environment. Enrolment at Northwestern Polytechnic assumes that the student will become a responsible citizen of the College. As such, each student will display a positive work ethic, take pride in and assist in the maintenance and preservation of Institute property, and assume responsibility for his/her education by researching academic requirements and policies, demonstrating courtesy and respect toward others; and respecting instructor expectations concerning attendance, classroom and shop rules, safety, assignments, deadlines and appointments. Students are learning skills to prepare them for the work environment.

Following the guidelines in “Student Rights and Responsibilities” in the NWP College calendar assist us all in maintaining an adult learning environment. Please refer to the Student Rights and Responsibilities policy in the Northwestern Polytechnic Calendar or at www.nwpolytech.ca/downloads/documents/StudentRightsandResponsibilities.pdf.

STATEMENT ON PLAGIARISM AND CHEATING:

Cheating and plagiarism will not be tolerated and there will be penalties. For a more precise definition of plagiarism and its consequences, refer to the Student Conduct section of the Northwestern Polytechnic Calendar at <https://www.nwpolytech.ca/programs/calendar/> or the Student Rights and Responsibilities policy which can be found at <https://www.nwpolytech.ca/about/administration/policies/index.html>.

**Note: all Academic and Administrative policies are available on the same page.