MINNESOTA WEST COMMUNITY & TECHNICAL COLLEGE
COURSE OUTLINE

Faculty are required to have the outline submitted to the Academic Affairs Office. The course outline is the form used for approval of new courses by the Academic Affairs and Standards Council.

DEPT. Diesel  COURSE NUMBER: DSL 1160

NUMBER OF CREDITS: 2

COURSE TITLE: Basic Mechanics


AUDIENCE: High school PSEO

FULFILLS MN TRANSFER CURRICULUM AREA(S) (Leave blank if not applicable)
Area: by meeting the following competencies:
Area: by meeting the following competencies:
Area: by meeting the following competencies:

PREREQUISITES OR NECESSARY ENTRY SKILLS/KNOWLEDGE: N/A

LENGTH OF COURSE: 2 credits

THIS COURSE IS USUALLY OFFERED:
Every other year [ ] fall [ ] spring x [ ] summer [ ] undetermined [ ]

Four goals are emphasized in course at Minnesota West Community & Technical College:

1) ACADEMIC CONTENT: The academic objectives of this course are:
   a. To teach the students shop safety and tool usage.
   b. Teaching the students basic electrical
   c. Teaching the student basic engine operation and proper maintenance of powertrain.
2) THINKING SKILLS: This course will help students improve the effectiveness of their thinking skills through:
   a. The students will be given homework assignments out of a text.
   b. The students will be assigned research on each of the areas of study.
   c. The students will have to explain individually and to a group of their peers in each area of study.
   d. The students will be given a troubleshooting project.

3) COMMUNICATIONS SKILLS: This course will help students improve their oral and written communication skills through:
   a. Filling out a workbook
   b. Student will have to participate through the classroom with other students and individually with the instructor.

4) HUMAN DIVERSITY: This course will help students recognize, understand, and appreciate human diversity through:
   a. A. To understand the roles of the technician in communicating with a diverse population.
   b. B. To work effectively in teams comprised of diverse backgrounds.
   c. C. To express personal philosophies on diverse issues.

TOPICS TO BE COVERED: Engines, Powertrain, Braking Systems, Tires, Chassis, Electrical

LIST OF EXPECTED COURSE OUTCOMES: Give the students a basic understanding of mechanics in today's industry and show them that it can be a great career choice.

LEARNING/TEACHING TECHNIQUES used in the course are:

- Collaborative Learning
- Problem Solving
- Student Presentations
- Interactive Lectures
- Creative Projects
- Individual Coaching
- Lecture
- Films/Videos/Slides
- Demonstrations
- Other (describe below)
- Lab

ASSIGNMENTS AND ASSESSMENTS FOR THIS CLASS INCLUDE:

- Reading
- Tests
- Individual Projects
- Oral Presentations
- Worksheets
- Collaborative Projects
EXPECTED STUDENT LEARNING OUTCOMES: The students will have a good understanding of how basic mechanics will apply to them.

STUDENTS NEEDING ACCOMMODATIONS FOR A DISABILITY MUST NOTIFY THE INSTRUCTOR.

This document can be made available in alternative format, allowing ample time for adaptations, to individuals with disabilities by calling Diane Graber at 800-657-3966. For TTY Communications call the Minnesota Relay Service at 800-627-3529. An Affirmative Action Equal Opportunity Educator/Employer. ADA Compliant.

The information in this course outline is subject to revision.