MINNESOTA WEST COMMUNITY & TECHNICAL COLLEGE
COURSE OUTLINE

Faculty is 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.  Powersports Technology          COURSE NUMBER:  PRSP 1100

NUMBER OF CREDITS:  4 credits (1 lecture - 3 lab)

COURSE TITLE:  Outdoor Power Equipment Technology

CATALOG DESCRIPTION:  This course will introduce students to the operating principles of OPE engines and drive systems. The focus of this course will be systems operation and maintenance of equipment components to maintain optimum performance. Instruction will include fuel and electrical system normal function, basic system analysis, and maintenance procedures to restore equipment from normal operation and wear.

AUDIENCE:  Powersports Technology Students

FULFILLS MN TRANSFER CURRICULUM AREA(S) (Leave blank if not applicable)

PREREQUISITES OR NECESSARY ENTRY SKILLS/KNOWLEDGE:
•  Passing grade in TRAN 1100 Introduction to Transportation
•  Basic Mechanical Aptitude
•  Capable of Reading and Writing
•  Communication Skills.

LENGTH OF COURSE:  4 credits (1 lecture - 3 lab) Fall Semester

THIS COURSE IS USUALLY OFFERED:  Fall Semester

Four goals emphasized in course:

1)  ACADEMIC CONTENT:  The academic objectives of this course are:
   a)  Reading
   b)  Writing
   c)  Basic math

2)  THINKING SKILLS:  This course will help students improve the effectiveness of their thinking skills through:
   a)  Problem Solving
   b)  Diagnosing
   c)  Analyzing
   d)  Researching
3) **COMMUNICATIONS SKILLS:** This course will help students improve their oral and written communication skills through:
   a) Participation in class discussion.
   b) Completing written assignments.
   c) Improving oral communications skills through class and lab interaction.

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

**TOPICS TO BE COVERED:**
- Safety while working in the shop.
- Outdoor Power equipment engine operation.
- Normal functions of the drive systems, fuel system, electrical system, and vehicle operation characteristics.
- Normal equipment wear recognition
- Necessary procedures to restore equipment performance.
- Routine maintenance procedures on various systems.

**LIST OF EXPECTED COURSE OUTCOMES:** To gain an overall knowledge of basic maintenance of the engine, fuel system, electrical system, how to analyze the performance of these Outdoor Power Equipment units.

**STUDENT LEARNING OUTCOMES (SPECIFIC):**
*Upon completion of this course the student will be able to:*
   a) Exhibit proper safety technique at all times.
   b) Demonstrate improved mechanical ability and manage lab projects.
   c) Process and retain information from service manuals and bulletins.
   d) Apply mechanical skills to work more interdependently.
   e) Illustrate correct tool usage and technology properly in the lab.
   f) Apply acquired knowledge while servicing the various systems.
   g) Illustrate the ability to diagnose service problems.
   h) Work diligently and proficiently in the lab.
   i) Demonstrate proper use of verbal and written communication skills.

**LEARNING/TEACHING TECHNIQUES used in the course are:**

- X Collaborative Learning
- X Problem Solving
- □ Student Presentations
- □ Interactive Lectures
- □ Creative Projects
- □ Individual Coaching
- X Lecture
- X Films/Videos/Slides
- X Demonstrations
- □ Other (describe below)
- X Lab
ASSIGNMENTS AND ASSESSMENTS FOR THIS CLASS INCLUDE:

- X Reading
- X Tests
- X Individual Projects
- X Textbook Problems
- X Worksheets
- X Collaborative Projects
- X Oral Presentations
- X Papers
- X Portfolio
- X Group Problems
- X Term Paper
- ☐ Other (describe below)

Veteran Services: Minnesota West is dedicated to assisting veterans and eligible family members in achieving their educational goals efficiently. Active duty and reserve/guard military members should advise their instructor of all regularly scheduled military appointments and duties that conflict with scheduled course requirements. Instructors will make every effort to work with the student to identify adjusted timelines. If you are a veteran, please contact the Minnesota West Veterans Service Office.

The information in this course outline is subject to revision

To receive reasonable accommodations for a documented disability, please contact the campus Student Services Advisor or campus Disability Coordinator as arrangements must be made in advance. In addition, students are encouraged to notify their instructor.

This document is available in alternative formats to individuals with disabilities by contacting the Student Services Advisor or by calling 800-658-2330 or via your preferred Telecommunications Relay Service.

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