Faculty members 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. PRSP  COURSE NUMBER: 1100

NUMBER OF CREDITS: 4  Lecture: 1  Lab: 3

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 operations 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.

FULFILLS MN TRANSFER CURRICULUM AREA(S)

Goal 1: Communication: ____ by meeting the following competencies:

Goal 2: Critical Thinking: ____ by meeting the following competencies:

Goal 3: Natural Sciences: ____ by meeting the following competencies:

Goal 4: Mathematics/Logical Reasoning: ____ by meeting the following competencies:

Goal 5: History and the Social and Behavioral Sciences: ____ by meeting the following competencies:

Goal 6: The Humanities and Fine Arts: ____ by meeting the following competencies:

Goal 7: Human Diversity: ____ by meeting the following competencies:

Goal 8: Global Perspective: ____ by meeting the following competencies:

Goal 9: Ethical and Civic Responsibility: ____ by meeting the following competencies:

Goal 10: People and the Environment: ____ by meeting the following competencies:

Prerequisites or Necessary Entry Skills/Knowledge:
Passing grade in TRAN1100 Introduction to Transportation
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.

Student Learning Outcomes (Specific):

- 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.

Is this course part of a transfer pathway:  Yes  ☐  No  ☒

Revised Date:  May, 2020