

### MASTER COURSE OUTLINE

A. IMMR 2735 Preventive Maintenance

B. COURSE DESCRIPTION:

This course emphasizes Preventive Maintenance (PM), the value of a good maintenance program, and the returns that can be expected with its implementation. Topics covered include maintenance checklists, PM costs, lost revenue costs, and starting an on-site PM program. The monitoring of equipment includes the use of infrared camera (thermography), laser alignment, vibration analysis, and oil analysis. Prerequisites: IMMR 1715 and IMMR 1770.  
**(3 Cr – 1 lect, 2 lab)**

C. Core Theme: Critical Thinking

D. MAJOR CONTENT AREAS:

- Preventive Maintenance (PM) schedules
- Belts
- Pulleys
- Pivot points
- Oil level
- Grease machines
- Bearing inspection

E. GOAL TYPE, OBJECTIVES AND OUTCOMES:

<u>GOAL TYPE</u>	<u>OBJECTIVES</u>	<u>OUTCOMES</u>
** <u>Critical Thinking</u>	Students will be able to gather factual information and apply it to a given problem in a manner that is relevant, clear, comprehensive, and conscious of possible bias in the information selected.	The student will successfully 1. demonstrate equipment service and maintain documentation.
<u>CS</u>	identify a PM schedule and what it should include.	1. create a PM schedule and set-up a file.
<u>CS</u>	develop a study of gear boxes, belts, and pulleys.	1. perform routine PM on equipment.

F. SPECIAL INFORMATION:

This course may require use of the Internet, the submission of electronically prepared documents and the use of a course management software program. Students who have a disability and need accommodations should contact the instructor or the Student Success Center at the beginning of the semester. This information will be made available in alternative format, such as Braille, large print, or current media, upon request.

G. COURSE CODING INFORMATION:

Course Code S/ Class Maximum 24; Letter Grade.

Revision date: 01/14/11

AASC Approval date: 03/22/11

<b>*Riverland Community College Disciplines</b>	<b>MnTC Goal Number</b>
Communication (CM)	<b>1</b>
Natural Sciences (NS)	<b>3</b>
Mathematics/Logical Reasoning (MA)	<b>4</b>
History and the Social & Behavioral Sciences (SS)	<b>5</b>
Humanities and Fine Arts (HU)	<b>6</b>

<b>**Riverland Community College Core Themes</b>	<b>MnTC Goal Number</b>
Critical Thinking (CT)	<b>2</b>
Human Diversity (HD)	<b>7</b>
Global Perspective (GP)	<b>8</b>
Ethical and Civic Responsibility (EC)	<b>9</b>
People and the Environment (PE)	<b>10</b>

\*These five MnTC Goals have been identified as Riverland Community College Disciplines.

\*\* These five MnTC Goals have been identified as Riverland Community College Core Themes.

NOTE: The Minnesota Transfer Curriculum “10 Goal Areas of Emphasis” are reflected in the five required discipline areas and five core themes noted in the Riverland Community College program of study guide and/or college catalog.