DEPT. MECH   COURSE NUMBER: 1102

NUMBER OF CREDITS: 2   Lecture: 1 Lab: 1

Course Title:
Mechanical Power Transmission

Catalog Description:
Introduces students to fundamental industrial mechanical concepts, principles, and equipment.

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:
None
### Topics to be Covered
1. Shop safety.
2. Precision Measurement.
3. Print reading.
4. Tools.
5. Lubrication.
7. Flexible belt, mechanical and chain drives.
8. Vibration and alignment

### Student Learning Outcomes
1. Identify and control potential safety hazards and implement safe working practices.
2. Demonstrate proper use of various tools and measuring devices.
3. Identify the function and types of lubricants.
4. Demonstrate selection and installation of common belts drives, bearings, gears, and chain drives.
5. Calculate speed and torque ratios produced by mechanical drives.
6. Perform shaft alignments with various measuring devices.

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

Revised Date: 05/2020