A. CATALOG DESCRIPTION
1. Credits: 2, 1 lecture, 1 lab
2. Hours/Week: 3, 1 lecture, 2 lab
3. Prerequisites (Course discipline/number): None
4. Co-requisites (Course discipline/number): None
5. MnTC Goals (if any): NA

This course prepares students in the field of fluid power. It consists of hydraulic principles including system components, diagrams, drawings, trouble shooting, and system maintenance. The basic relationships of force, work, energy and the different types of compressors will also be addressed.

B. DATE LAST REVISED (Month, year): October, 2013

C. OUTLINE OF MAJOR CONTENT AREAS:
1. Principals of pneumatics/hydraulics
2. Basic system parts identification
3. System drawings
4. System requirements and maintenance
5. System trouble shooting

D. LEARNING OUTCOMES (GENERAL): The student will be able to:
1. Identify and name the major components of pneumatic/hydraulic systems.
2. Describe basic system symbols and drawings.
3. Describe system parts and properties.
4. Identify and describe pump classifications.
5. Describe trouble shooting and maintenance issues and procedures.

E. LEARNING OUTCOMES (MNTC): NA

F. METHODS FOR EVALUATION OF STUDENT LEARNING:
1. Chapter worksheets/Lab log progress sheets
2. Unit evaluations
3. Midterm Exams
4. Final Exam

G. RCTC CORE OUTCOME(S) Addressed:
- Communication
- Critical Thinking
- Global Awareness/Diversity
- Civic Responsibility
- Personal/Professional Accountability
- Aesthetic Response

H. SPECIAL INFORMATION (if any): None