

# Dakota County Technical College

## ETSA 2512: Hydraulics

### A. COURSE DESCRIPTION

Credits: 3

Lecture Hours/Week: 1

Lab Hours/Week: 2

OJT Hours/Week: \*.\*

Prerequisites: None

Corequisites: None

MnTC Goals: None

This course is an introductory course in hydraulics. This course is designed for students who have no previous experience working with hydraulic systems. The primary goals of this course are to help individuals acquire the knowledge and skills required to install, troubleshoot and maintain hydraulic systems.

**B. COURSE EFFECTIVE DATES:** 09/08/2010 - Present

### C. OUTLINE OF MAJOR CONTENT AREAS

### D. LEARNING OUTCOMES (General)

1. assemble and disassemble hydraulic components
2. connect electro-hydraulic control devices
3. interpret hydraulic device specifications
4. perform routine maintenance of hydraulic actuators, control valves, and pumps
5. plumb basic hydraulic circuits
6. read and draw schematics of hydraulic systems

### E. Minnesota Transfer Curriculum Goal Area(s) and Competencies

None

### F. LEARNER OUTCOMES ASSESSMENT

As noted on course syllabus

### G. SPECIAL INFORMATION

None noted