Course Prefix and Number: CIV 270  
Credits: 3

Course Title: Utilizing Surveying Software

Course Description: Introduces computer applications for conventional coordinate-geometry (COGO) calculations. Studies and evaluates numerous COGO software and their associated drafting packages. Includes calculations and drafting of traverse adjustment, subdivision, curves, and others. Prerequisite: CIV 172 or equivalent. Lecture 3 hours per week.

General Course Purpose: Introduces the student to the use of COGO in civil engineering design.

Course Prerequisites and Co-requisites:  
Prerequisite: CIV 172 or equivalent

Course Objectives:  
Upon completing the course, the student will be able to  
  a. Collect and/or transfer survey data;  
  b. Perform survey adjustment using COGO;  
  c. Site design/drafting using CAD and surveying software; and  
  d. Map surface using CAD and surveying software.

Major Topics to Be Included:  
  a. Surveying data collection/data transfer  
  b. Survey adjustments  
  c. COGO and drafting  
  d. Site design/mapping

Effective Date of Course Content Summary: August 2008