

**J. Sargeant Reynolds Community College
Course Content Summary**

Course Prefix and Number: CIV 260

Credits: 3

Course Title: Surveying Exam Preparation

Course Description

Reviews state requirements for licensing of surveyors, including rules, regulations and ethics. Provides preparation for licensure of surveyors by explaining and practicing problems typical of those appearing in the Surveyors State Board Examination. Lecture 3 hours per week.

General Course Purpose

To prepare students to pass the Surveyors State Board Examination

Course Prerequisites/Corequisites (Entry-level competencies **required** for enrollment)

CIV 171 and 172 or instructor approval

Course Objectives

Upon completing the course, the student will be able to:

- a. Solve problems concerning corrections for accurate taping
- b. Solve problems for bearings of lines, azimuths and back directions
- c. Solve problems concerning horizontal and vertical curves
- d. Solve problems concerning computations of a traverse, area, etc
- e. Solve problems using stadia methods and magnetic declination
- f. Understand general review of all phases of surveying

Major Topics to be Included

- a. Introduction and surveying field notes
- b. Theory of measurements and errors
- c. Linear measurements
- d. Leveling
- e. Transit, compass, angles, bearings and azimuths
- f. Traversing, traverse computations and area computations
- g. Stadia
- h. Field astronomy
- i. Circular curves
- j. Photogrammetry

Effective Date of Course Content Summary: August, 2008