



STARK STATE COLLEGE

GENERAL SYLLABUS

Course Information

Course Name: Surveying I
Course Number: CET227

Required Materials

Textbook(s): Kavanagh- Surveying Principles and Applications
Required Readings: None
Additional Materials: Calculator, Engineering Paper, Field Book

Course Outline/Calendar

The date of coverage and order of coverage may be modified based on the faculty member and events beyond the control of faculty members that interfere with class times and teaching.

Week	Chapter/Topic/Lab
1	Chapter 1- Surveying History and Units of Measure, Measuring Horizontal Distances/Pacing
2	Chapter 3-Taping Procedure, Potential Errors/Corrections for Taping
3	Chapter 4-Intro to Digital Transit & Angular Measurement, Percent Slope and Topographic Maps
4	Chapter 4- Angles/Intro to Total Stations, Chapter 5 Azimuth and Bearing Calculations
5	Exam #1 (15%)
6	Chapter 5-Intro to Civil 3D, Chapter 6-Latitudes and Departures
7	Chapter 6-Closed Traverses, Lab #1, Closed Traverses Continued
8	Chapter 6-Closed Traverses in Civil 3D, Lab #2
9	Chapter 6
10	Chapter 6- Open traverses & Route Surveys/Civil Blueprints, Lab #3
11	Chapter 6-Vertical Measurements, Chapter 2-Rod Reading/Level Nets
12	Chapter 5-Trigonometric Leveling and Lab Day, Lab #4
13	EXAM #2 (15%)
14	Construction Surveys and and Lab Day, Lab #5
15	AutoDesk Civil 3D and Lab Day, Lab #6
16	Engineering Ethics and Lab Day, Lab #7, Exam #3 (15%)