



# STARK STATE COLLEGE

## GENERAL SYLLABUS

### Course Information

**Course Name:** Global Positioning Systems  
**Course Number:** CET236

### Required Materials

**Textbook(s):** Surveying Principles by Kavanagh and Civil 3D Essentials by Chappell  
**Required Readings:** None  
**Additional Materials:** Calculator, Engineering Paper and Autodesk Civil3D (via computer lab or student copy)

### 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	Chapters 1&2-Introduction to GPS and Class Overview
2	Chapters 1&2-GPS Trilateration
3	Chapter 3-AutoDesk Civil 3D Lines, Labels and Importing Data
4	Chapter 4-AutoDesk Civil 3D Surfaces and Data Collectors
5	Chapters 17 &18-GPS Error Sources, Lab1-Ch 3 Civil 3D
6	EXAM #1
7	Chapters 17 &18-RTK Surveying and Mission Planning, Lab 2-Ch 4 Civil 3D
8	Chapters 17 & 18-Lab Day and Survey Pro Setup, Lab 3-Ch 17 & 18 Civil 3D
9	Chapter 17 & 18
10	Chapter 19 (online)-Lab Day -Coordinates & Data AND Key Code Descriptions
11	Exam #2
12	Chapter 19 (online)-Lab Day and Page Layout
13	Chapters 5 & 6-Lab Day Alignments, GPS Lab 4 on setup & five property pins
14	Chapters 12 & 13-Lab Day, OPUS, CORS & Civil 3D Parcels, GPS Lab 5 Topo map
15	Chapters 12 & 13-Lab Day and Civil 3D Post Processing of Projects, GPS Lab 6 Topo with features
16	Exam #3