Course Name: GISC 2250, Survey Camp I

Camp Time: January 02 - January 06, 2012

Location: TBA

Instructors: Dr. Peter Kuntu-Mensah
Office: CBI 105, 361-825-3419, peter.kuntu-mensah@tamucc.edu
Office Hours: 10:00 - 12:00 p.m. TH or 9:00 – 11:00 A.M Friday & by appointment

Course Description:
This is a one week survey camp with intensive field data collection and computations. Will include closed traverse, digital leveling and digital contouring. Detail spatial data collection by Total station, construction set out using total station and steel band, e.t.c.

Prerequisite: Plane Spatial I - GISC 2470

Course Outcomes:
Understand the principles of measurements in horizontal and vertical planes.
Familiarize with the concepts of land measurements and plane surveying.
Be familiar with the instrument used to carry out horizontal and vertical measurements.
Understand the use of automation in the measurement of land as depicted on a plane reference system.
Produce map from surveying assignments

Required Text:

Course Requirements:
Attendance at the Camp for the duration of Field Camp
Completion and hand in of assignment by close of camp.
Active participation in field exercises, individual computations, and reports.
Preparation and hand in of property annotated survey plat
Course Outline

Exercises
Field reconnaissance, determine control/benchmark points
Check on total stations and levels (measure distances by various methods, closing the horizon, and 2 peg test)
Traverse of secondary control for area included in detail survey of site, buildings and surroundings.
Level run from Benchmark to establish vertical control onsite.
Also GPS to confirm control points (found or established) on site
Computations of coordinates and elevations.
Detail survey/Construction stake out or topo
Preparation of final plans.

Assessment:
1. Recon/instrument check etc 10%
2. Field notes 20%
2. Constr. stake out (assign topo) 10%
2. Traverse Computations 20%
3. Final plan 20%
4. Participation (proposal, papers) 20%

TOTAL 100%

Grading:
A 90 - 100
B 80 - 89
C 70 - 79
D 60 - 69
F <60

1 Maybe be subject to change