

SUR 212 – Field Camp I Summer 2020

A. COURSE INFORMATION

Course number/section: SUR 201.001
Class meeting time: Lecture: Online Only
Class location: Lecture: Online Only
Course Website:

B. INSTRUCTOR INFORMATION

Instructor: C.A. “Tony” Nettleman, III
Office location: Online Only
Office hours: TBA
Telephone: TBA
E-mail: TBA
Appointments: TBA or by appointment

Please be aware that e-mails are typically returned within 24 hours and I will be traveling throughout the semester (dates will be posted shortly before each trip). For immediate assistance, please call my cell phone.

C. COURSE DESCRIPTION

Catalog Course Description

A one-week field camp with intensive field data collection and computations. Traversing between control points. Digital contour data and leveling control. Detail spatial data by total station. Construction set out using total station and steel band. Taken during the sophomore or junior year.

D. PREREQUISITES AND COREQUISITES

Prerequisites

SUR 211 and SUR 212

E. REQUIRED TEXTBOOK(S), READINGS AND SUPPLIES

Required Textbook(s)

- Elementary Surveying (Ghilani, any edition)
- Field Camp I Lab Manual (everyone must have a copy)
- Pre-programmed HP35s Calculator

Supplies

- Survey Field Book

F. STUDENT LEARNING OUTCOMES AND ASSESSMENT

By the end of this course, students should be able to:

1. Demonstrate proper equipment calibration techniques
2. Demonstrate proficiency in collecting data with total stations, GPS and differential levels
3. Demonstrate proficiency in reducing total stations, GPS and differential leveling data
4. Apply surveying principles to field practice

G. INSTRUCTIONAL METHODS AND ACTIVITIES

This is an intensive, one-week, LIVE course. Students will be lectured to in the morning, a daily plan devised, and the rest of the day will be spent working outside on various lab assignments.

The student must attend all days of instruction to receive a passing grade in the class.

All assignments are due 14 days after the last day of class. This deadline is intended to give the groups time to compute all data before the conclusion of the course.

H. MAJOR COURSE REQUIREMENTS AND GRADING

Student learning outcomes will be assessed through two examinations, quizzes, and a project.

ACTIVITY	% of FINAL GRADE
Labs (field work, computations and lab reports)	50
Pre-lab skill checks (online)	20
post-lab skill checks (hands-on)	20
Complete Field Book	10

I. COURSE CONTENT/SCHEDULE

Day	<u>TOPIC</u>	CHAPTER(S)	ASSIGNMENTS
1	Benchmarks with Static GPS	14	See Lab Manual
2	Traversing with Total Stations	9 and 10	See Lab Manual
3	Leveling to Build Route Features	5	See Lab Manual
4	Trig Leveling	4	See Lab Manual
5	UAS in Surveying	TBA	TBA

Missing one day of field camp without prior approval will result in an administrative “F.”

Note: Changes in this course schedule may be necessary and will be announced to the class by the Instructor. The assignments and exams shown are directly related to the Student Learning Outcomes described in Section F.

J. COURSE POLICIES

Attendance/Tardiness

Attendance at all times is compulsory

Late Work

Late work will not be graded.

Participation

Participation in all activities is compulsory.

K. COLLEGE AND UNIVERSITY POLICIES

Academic Integrity (University)

It is expected that university students will demonstrate a high level of maturity, self-direction, and ability to manage their own affairs. Students are viewed as individuals who possess the qualities of worth, dignity, and the capacity for self-direction in personal behavior. See the full University Policy at landsurveycareer.com/catalog

Deadline for Dropping a Course with a Grade of W (University)

The grade of W will be assigned to any student officially dropping a course. Please consult with the instructor before you decide to drop to be sure it is the best thing to do. Just stopping attendance and participation WILL NOT automatically result in your being dropped from the class. Should dropping the course be the best course of action, visit the Office of the University Registrar for the Course Drop Form that must be submitted. No student is eligible to receive a W without completing the official drop process by this deadline. Please consult the Academic Calendar (landsurveycareer.com/calendar) for the last day to drop a course

Grade Appeals (College of Science and Engineering)

A student who believes that he or she has not been held to appropriate academic standards as outlined in the class syllabus, equitable evaluation procedures, or appropriate grading, may appeal the final grade given in the course. The burden of proof is upon the student to demonstrate the appropriateness of the appeal. A student with a complaint about a grade is encouraged to first discuss the matter with the instructor.

Disability Services

Our services are designed to meet the unique educational needs of enrolled students with documented permanent or temporary disabilities. DS provides intake and consultation services to students seeking to register with our office. DS reviews an individual's documentation of disability and assesses eligibility for services and the determination of reasonable accommodations. For more information visit the Disability Services Office landsurveycareer.com/disability

GENERAL DISCLAIMER

I reserve the right to modify the information, schedule, assignments, deadlines, and course policies in this syllabus if and when necessary. I will announce such changes in a timely manner during regularly scheduled lecture periods.