

SUR 201 – Intro to Surveying Spring 2019

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 CATALOG DESCRIPTION

An introduction to the fundamental concepts of geomatics engineering philosophical thought; the technical, professional, ethical, and social responsibilities of the geomatics engineer; geomatics engineering professional and career opportunities; professional ethics and safety.

D. PREREQUISITES AND COREQUISITES

Prerequisites

E. REQUIRED TEXTBOOK(S), READINGS AND SUPPLIES

None

F. STUDENT LEARNING OUTCOMES AND ASSESSMENT

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

1. List and describe the four professions that make-up geomatics engineering
2. List six types of land surveying and give examples of each
3. Describe one professional organization at the international, national, and state level
4. Explain the role of the State Board of Professional Surveyors

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5. List the steps required to become a land surveyor in training and professional land surveyor
6. Describe how a land surveyor makes ethical decisions and give examples of major ethical considerations

G. INSTRUCTIONAL METHODS AND ACTIVITIES

This course is composed of fifteen weekly modules. Each module includes lectures, assignments, and assessments created to gauge your understanding of the material.

Weekly modules are launched each Sunday at 12:01 AM. The student is expected to watch the lectures and complete their work before the next Saturday at 11:59 PM. Projects may run longer than one week so check your calendar for details.

H. MAJOR COURSE REQUIREMENTS AND GRADING

Student learning outcomes will be assessed through the following assignments and assessments:

ACTIVITY	% of FINAL GRADE
Projects	30
Homework Assignments	30
Midterm and Final Exams	30
Class Participation	10

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I. COURSE CONTENT/SCHEDULE

WEEK	TOPIC	CHAPTER(S)	ASSESSMENTS	ASSIGNMENTS
Week 1	Introduction and Welcome	Instructor Handouts		
HISTORY OF LAND SURVEYING				
Week 2	Ancient Civilizations through Medieval Times	Instructor Handouts		
Week 3	With Compass and Chain	Instructor Handouts		Homework #1
Week 4	Recent History	Instructor Handouts	Quiz #1	Project #1
REGULATION AND LICENSURE				
Week 5	Professional Organizations at the International, National, and State Level	Instructor Handouts		
Week 6	Board of Professional Land Surveyors	Instructor Handouts		
Week 7	Becoming a Land Surveyor in Training and Professional Surveyor	Instructor Handouts	Quiz #2	Project #2 Homework #2
Week 8	Midterm Exam			
CAREER PATHS				
Week 9	Career Paths in Geomatics (Traditional Surveying)	Instructor Handouts		
Week 10	Career Paths in Geomatics (GIS)	Instructor Handouts		
Week 11	Career Paths in Geomatics (Remote Sensing)	Instructor Handouts		Homework #3
Week 12	Career Paths in Geomatics (Hydrographic Surveying)	Instructor Handouts	Quiz #3	Project #3
EMERGING TECHNOLOGIES				
Week 13	Laser Scanning	Instructor Handouts		
Week 14	Drones	Instructor Handouts	Quiz #4	Homework #4
Week 15	Final Exam Prep			
Week 16	Final Exam			

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 catalog.niset.xyz

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 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.

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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 contact the Disability Services Office 888-211-2198.

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.