

SUR 4934 / SUR6934 – Marine Geomatics Spring 2014

INSTRUCTORS: Lou Nash
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ON-LINE REFERENCES:

US-ACE Manuals: <http://140.194.76.129/publications/eng-manuals/> (See – Hydrographic Surveying)
GPS World: www.gpsworld.com/gpsworld/
NGS: www.ngs.noaa.gov

GRADING: Final grade will be based on the following breakdown

SUR4934		SUR6934	
20%	Attendance	15%	Attendance
20%	Labs	15%	Labs
40%	Quizzes 1-4 (10% each)	35%	Quizzes 1-4 (10% each)
20%	Team Project	15%	Team Project
		20%	Term paper

LATE POLICY: Due dates will be announced when assignment is given.
A deduction of 25% will be made for each day it is late.

GOALS AND OBJECTIVES: The goal of this course is to provide the students with an understanding of hydrographic surveying and mapping as it pertains to the practice of Geomatics. The students will learn the concepts of Datums, tides, coordinate systems, marine positioning, sonar systems, bottom classification, future trends. Students will learn by software simulation and field exercises.

ACCOMMODATIONS FOR STUDENTS WITH DISABILITIES: "Students requesting classroom accommodation must first register with the Dean of Students Office. The Dean of Students Office will provide documentation to the student who must then provide this documentation to the Instructor when requesting accommodation."

HONESTY POLICY: All students are required to abide by the Academic Honesty Guidelines, which have been accepted by the University.
(See: [http:// \(www.dso.ufl.edu/studentguide/studentrights.php\)](http://www.dso.ufl.edu/studentguide/studentrights.php))

	LECTURE	LAB
10 JAN	Intro to Marine Geomatics	SPKR # 1 (Trimble Navigation)
17 JAN	Coordinate Systems / Datums	Basic Electronics
24 JAN	Positioning Techniques	Interfacing / SPKR# 2 (USACE JAX) EXAM 1
31 JAN	Marine Software Overview	Intros: HYPACK / HYDROpro
7 FEB	Single Beam Surveys	Single Beam (SB) System Intro
14 FEB	Multibeam Surveys	SB System Support / SPKR # 3 (SOS) EXAM 2
21 FEB	FIELD TRIP # 1	USACE JAX Dredge System Intro
28 FEB	Scanning Sonars & Other	Dredge System Support
7 MAR	SPRING BREAK	
14 MAR	FIELD TRIP # 2*	A NICKEL MORE*
21 MAR	ROVs & Inspections	Optical Tracking Intro / SPKR # 4
28 MAR	Team Project Assignments	Optical Tracking Support EXAM 3
4 APR	Team Project Presentations	
11 APR	Team Project Presentations / Course Review	
18 APR	EXAM 4*	

* LN not available