

INTRODUCTION TO FOREST SURVEYING

Spring, 2000

INSTRUCTOR

Rob Carroll

CLASS MEETS T, Th at 8:00-11:50 a.m.

OFFICE & HOURS

Room FEM 10

M, W at 12:00-13:00 p.m.
T at 13:00-14:00 p.m.

TEXTBOOKS

Surveying (Jack McCormac) 3rd edition and Elementary Forest Surveying (Wilson)

COURSE OBJECTIVES

Students will familiarize themselves with the use of surveying instruments to collect surveying data in a forest/high relief environment. Includes measurement of distance, difference in elevation, areas, volumes, and legal land descriptions.

ATTENDANCE

As this is a 4 unit technical class required for graduation in the Forest/Park Technology program, regular attendance is essential. If you are not able to attend class due to a legitimate reason, you are to notify the instructor and make arrangements to ameliorate the absence.

FINAL DROP DEADLINE

The last day to drop a class is February 10, 2000.

GRADING

Final grades will be calculated using the following rationale. The individual with the highest point total at the end of the semester will set the standard of what can reasonably be obtained. Percentiles of that high score will be calculated to determine grades for the rest of the class. Example: Assume the high individual in the class earned 428 of 450 points possible. The grades will be calculated as follows:

386-428	A	90% of high score
343-385	B	80% of high score
301-342	C	70% of high score
276-300	D	60% of high score
275-below	F	Less than 60% of high score

<u>Lecture</u>	Quizzes	3 @ 10 pts./each	= 30
	Exams	2 @ 50 pts./each	= 100
	Problems	(weekly homework)	= 100
	Final Exam		= <u>100</u>
	Lecture Total		= 330

<u>Labs</u>	# 1	=	10
	# 2	=	10
	# 3	=	20
	# 4	=	20
	# 5	=	10
	# 6	=	10
	# 7	=	10
	# 8	=	10
	# 9	=	10
	# 10	=	<u>10</u>
	Lab Total	=	120
	TOTAL POINTS	=	<u>450</u>

EQUIPMENT

Surveying field book
 Sandpaper pad
 Hand drafting pencil (non-smearing)
 Surveying text
 Triangular engineer's scale
 Calculator w/ trig functions
 Graph paper (green)

TENTATIVE SCHEDULE

<u>Date</u>	<u>Lecture</u>	<u>Lab</u>
1/11	Introduction	Introduction
1/13	Surveying Math	Math Lab
1/18	"	"
1/20	"	"
1/25	"	#1 Lettering Lab
1/27	Surveying	#2 Pacing Lab
2/1	"	"
2/3	Errors	#3 Chaining - HD Measurement
2/8	Public Land Survey	"
2/10	Linear Measurements	"
2/15	"	"
2/17	"	"
2/22	Quiz 1	"
2/24	Leveling	#4 Leveling
2/29	"	"
3/2	Quiz 2	"
3/7	Review	Measuring Direction Demo
3/9	EXAM 1	"
3/14	Measuring Direction	#5 Hand Compass
3/16	"	"
3/21	"	"
3/23	"	#6 Staff Compass
3/28	"	"
3/30	Quiz 3	#7 Transit-Total Station
4/4	Review	"
4/6	EXAM 2	#8 Area Comp. Planimeter Dot Grid
4/11	Area Computation	"
4/13	"	#9 DMD
4/17-21	Spring Break	Spring Break
4/25	GPS	#10 Mapping
4/27	GPS	GPS Field Exercise
5/2	CIS	Introduction to Arc Info
5/4	Sequoia Lake Field Trip	Sequoia Lake Field Trip
5/9	EXAM 3	Topo Map Exercise
5/11	Final Review	Open Lab
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