CRN: 3181

Course Information Sheet MTH 225 Section 104 TR 12:30 – 1:45 PM SH 514

Fall 2011

I. General Information

Instructor:Dr. Suman SanyalOffice:Morrow Library 103Office phone/e-mail:696-3049 / sanyal@marshall.edu

Office hours: MWF 1:00 - 2:50 PM

Text: *Elementary Statistics* – A Step by Step Approach (A Brief Version) by Bluman (Fifth Edition) Prerequisites: (a) $ACT \ge 21$, or (b) $SAT \ge 500$, or (c) MTH 121 or HIGHER with "C" or higher.

II. Course Description and Objectives

A. Description

Statistics (3 hours) Basic probability, descriptive statistics, fundamental statistical inference procedures involving estimation and hypothesis testing for a variety of situations with wide applications.

Prerequisites: (a) ACT \ge 21, or (b) SAT \ge 500, or (c) MTH 121 or HIGHER with "C" or higher.

B. Objectives

The student will be able to ...

- use the elementary tools of data collection, description, and analysis.
- interpret the results of statistical studies.
- design and carry out simple experiments.
- use a computer spreadsheet program to carry out these tasks.

III. Schedule of Topics

A *tentative* schedule of topics and due dates appears on the last page of this document.

IV. Attendance Policy, etc.

Attendance records will not be used to compute grades. However, missing class can be expected to significantly reduce your chances of success.

Remember to turn off all electronic communication devices at the beginning of each class.

V. Testing and Grading

A. The following grades will be taken:

Homework/Quiz	100 pts.	
Test 1	100 pts.	Thursday, September 15
Test 2	100 pts.	Thursday, October 13
Test 3	100 pts.	Thursday, November 10
Final Exam	100 pts.	Tuesday, December 13, 12:45-2:45 PM
TOTAL	500 pts.	

B. The semester grade will be based on the percentage of the 500 total possible points, using the following scale.

90 -100% -- A 80 - 89% -- B 70 - 79% -- C 60 - 69% -- D 0 - 59% -- F

V. D. Missing Exams

- If you miss a test due to an unexcused absence, you will receive a grade of 0 for that test.
- If you miss a test due to an excused absence, you must provide verification within one week of the test.

You will then be allowed to take the make-up test on. This test will be SIGNIFICANTLY MORE DIFFICULT than the original test.

- If you cannot be at the final exam, let me know as soon as you know.
- E. Cheating
 - In a case of suspicion, a student may be asked to re-take the test.
 - Confirmed cheating will result in a grade of 0 on the test.
- F. Electronic Devices

No electronic devices other than a calculator will be allowed during exams.

If this creates a problem for you, please let me know so that accommodations can be arranged.

- VI. Miscellaneous
 - A. Free tutors are on duty in SH 526; a schedule will be posted shortly. Free tutors are available through University College, in Laidley Hall (1st floor). Call 696-3169, e-mail <u>tutoring@marshall.edu</u>, or go to <u>www.marshall.edu/uc</u>.

Free tutoring is also available for military veterans; contact the VA or see me for information.

B. DATES TO REMEMBER: Midterm grade reports for freshmen will be turned in on Monday, Oct. 17.

VII. University Policies

Policy for Students with Disabilities: Marshall University is committed to equal opportunity in education for all students, including those with physical, learning and psychological disabilities. University policy states that it is the responsibility of students with disabilities to contact the Office of Disabled Student Services (DSS) in Prichard Hall 117, phone 304-696-2271 to provide documentation of their disability. Following this, the DSS Coordinator will send a letter to each of the student's instructors outlining the academic accommodation he/she will need to ensure equality in classroom experiences, outside assignment, testing and grading. The instructor and student will meet to discuss how the accommodation(s) requested will be provided. For more information, please visit http://www.marshall.edu/disabled or contact Disabled Student Services Office at Prichard Hall 117, phone 304-696-2271.

Additional University Policies:

The list below provides links to information regarding specific policies of the university.

Academic dishonesty:

http://www.marshall.edu/lcob/old/Policy/Academic_Dishonesty_Policy.pdf

Nondiscrimination:

http://www.marshall.edu/www/ugradcat/PDF/05_08.pdf (p. 88)

Computing Services Acceptable Use Policy:

http://www.marshall.edu/ucs/CS/accptuse.asp

Inclement weather:

http://www.marshall.edu/www/ugradcat/PDF/05_08.pdf (pp. 89-90)

MTH 225: Introductory Statistics (MTH 225) – Fall 2011 Text: *Elementary Statistics: A Brief Version* by Bluman (Fifth Edition) **Tentative Schedule**

8-23	8-23 1.1 – 1.5 The Nature of		6.3 The Standard Normal	12-6	
	Prob. & Stats 2.4 Other Types of Graphs (categorical)	Wk 7	6.4 Applications of the Normal Distribution	Wk16	Continuatio topics and F FINAL
8-25	2.2 Organizing Data (freq	10-11	6.5 The Central Limit Thm		
Wk 1	tables)		6.6 The Normal Approx to	12-13	Final Exam
	Distribution curves	10-13	Test 2	Wk17	12:45 PM -
8-30	2.4 Other types of graphs	Wk 8	Chapters 4 – 6		(Comprehe
	2.5 Paired Data and Scatter Plots	10-18	7.2 Conf Intervals for the Mean (large samples) 7.3 Conf Intervals for the	NOTE:	This is a tent
9-1	3.2 Measures of Central		Mean (small sample)		
Wk 2	Tendency	10-20	7.4 Confidence Intervals for		
9-6	3.3 Measures of Variation	Wk 9	Proportions Problems solving		
9-8	3.4 Measures of Position	10-25	8.2 Steps in Hypothesis Testing		
Wk 3 3.5 Exploratory Data Analysis		10-27	8.3 z Test for a Mean	-	
9_13	9-13 Completion of Chapter 3		8.4. t Test for a Mean		
)-13	Completion of Chapter 5	11-1	z Test for a Proportion	-	
9-15	Test 1		8.6 Chi-sq Test for a		
Wk 4	Chapters 1 – 3		variance or std. dev.		
9-20	4.5 Counting Rules	11-3	9.2 Testing Two Means:		
	4.2 Sample Spaces & Prob.	Wk 12	9.4 Testing Two Means: Small Ind. Samples		
9-22	4.6 Prob. & Counting Rules	11-8	9.5 Testing Two Means:	=	
Wk 5	4.3 The Addition Rules for Counting		Small Dep Samples 9.6 Testing the Difference Between Proportions		
9-27 4.	4.4 The Multiplication Rules	11-10	Test 3	-	
	& Cond. Prob.	Wk13	Chapters 7 – 9		
9-29	5.2 Prob. Distributions	11-15	10.2 Correlation	-	
Wk 6	5.3 Mean, Variance, St. Dev., and Expectation	11-17		-	
10.4	5 4 The Binomial Dist	Wk14	10.3 Regression		
10-4	6.2 Dropartias of the Normal	12-1	10.3 Regression		
	Distribution		10.4 Coefficient of determination		

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ative schedule.