STATISTICS 2060A - Winter 2008

Lectures: TR 10:05-11:25 at SIR JAMES DUNN 135

Instructor: Prof. Hong Gu

Office: 101 Chase Bldg. Email: hqu@mathstat.dal.ca

Text: Jay L. Devore - Probability and Statistics for Engineering and the Sciences, seventh (or sixth) Edition.

Marking Scheme: Assignments 20%

Midterm exam 30% Final exam 50%

There will be no supplemental examination to this course.

This is a calculus-based introduction to probability and statistics with Math 1000 as prerequisites.

Assignments

There will normally be assignments every week during the term which must be handed in at class on the day they are due. Late assignments will not be accepted. Solutions will be available on my website http://www.mathstat.dal.ca/~hgu/teaching.html after the due date.

Some assignments may require the use of the MINITAB statistical package. MINITAB release 15 is available on campus at computer labs in LSC 200, LSC 2084, LSC 2087, MMASS2018, MMASS 2019, MMASS 2020, killam B433, Killam B400, Killam Learning Commons and Chase 007.

If you are unhappy about your assignment mark, use the following procedure: (1) Check the posted solutions. If still not convinced, (2) resubmit the assignment at the next round with a note to the marker explaining the nature of your complaint. Still unhappy? (3) See your instructor.

a) The <u>Math Learning Center</u> (check

http://www.mathstat.dal.ca/learning/learningcenter.html for location and times when statistics help is on duty)

b) From your instructor during office hours (Tues. Thur.

11:30am-12:30pm), or by appointment.

<u>Course Outline - Winter 2008</u>

Week	of	Topic	Section in text
Jan.	7	Introduction Sample spaces and events Axioms & properties of probability	2.1
Jan.	14	Combinatorics and combinatorial probab Conditional probability, independence	
Jan.	21	Conditional probability, Bayes theorem	n 2.4, 2.5
Jan.	28	Random variables pdf and CDF for discrete random variable Expected values for discrete random variables	
Feb.4	1	The Binomial distribution The Hypergeometric distribution The Poisson distribution	3.4 3.5 3.6
Feb.	11	Continuous random variables; the dense The CDF and expected values The Exponential distribution	ity function 4.2 part of 4.4
Feb.	18	The Normal distribution Descriptive statistics Measures of location and variability	4.3 1.2 1.3, 1.4
	MIDTERM EXAM Mar. 4 (Tues.), 10:05-11:25am on c		11:25am on class
At SIR JAMES DUNN 135.			
Mar.	6	Distributions of statistics	5.3
Mar.	10	Likelihood and point estimation Confidence interval for the population	
Mar.	17	Confidence interval for proportions Hypothesis testing	7.2 8.1
Mar.	24	Test for the population mean Test concerning proportions	8.2 8.3
Mar.	31	P-values	8.4,8.5
Apr.	7	Review	