STA261S DAY SECTION   Spring '08

STATISTICS
AN INTRODUCTION TO THE ANALYSIS OF DATA :
INFERENCIAL & INDUCTIVE REASONING

Instructors :	Lectures :	Tutorials :

Prof David Brenner   Monday 3:00 - 5:00
Sid Smith 6019   Wednesday 3:00 - 4:00   Wednesday 4:00 - 5:00
978-6368
brenner@utstat.toronto.edu
office: Mon. 2-3

Dr Hadas Moshonov   Wednesday 7:00 - 10:00   Wednesday 6:00 - 7:00
Sid Smith 6008
946-7587
hadas@utstat.toronto.edu
office: Wed. 5-6

Ref./Text :

WACKERLY D., MENDENHALL W., SCHEAFFER R.:
   MATHEMATICAL STATISTICS WITH APPLICATIONS   6th ed. ,
         Duxbury Press, Wadsworth Publishing, 2002.

– basically chapters 1, (2-7), 8, 9 & 10 with selected topics from chapters 11-14;
         provisional emphasis as follows:

- fundamentals: the structure & function of data [1, (4,7)]
  - expection: four interpretations
  - samples & the law of large numbers (LLN) - function
  - samples & the empirical distribution - structure
  - normality & the central limit theorem (CLT)
  - examples & review of distribution theory: binomial, poisson, exponential, gamma, normal ...
  - the general statistical model, parametric & otherwise

- estimation & confidence [(7), 8, 9]
  - consistency, unbiasedness & minimum variance
  - sufficiency & the rao-blackwell theorem
  - maximum likelihood

- hypothesis testing [10]
  - testing means, variances: differences & ratios
  - neymann-pearson theory

- linear models [11]
  - correlation, covariance & the linear relation
  - simple linear regression

STA261   DAY SECTION

Grading (G):

final $(F) = 50$

term $(T) = 50$ –   test 1 (T_1) =   20   – Wed. Feb. 13

–   test 2 (T_2) =   20   – Wed. Mar. 26

–   assignments   =   10   – one assignment handed out

$(A = A_1 + A_2)$ immediately after each test; due

in tutorial of the following week.

$T = T_1 + T_2 + A$, $G = T + F$

(NOTE: both term tests T_1 & T_2 will be held during class time)

illness:

If either T_1 or T_2 is missed due to illness, an official University of Toronto 'Student Medical Certificate' (available at the office of your college registrar) is required. This must be filled out by a qualified licenced physician and submitted before any of the following:

If T_1 missed due to illness, 'make-up' test, T_1^*, will be scheduled.

If T_2 missed due to illness, there will be no 'make-up'. In this case grades will be assessed as follows:

$F = 60$

$T = 40$ - T_1^* =   30

-   T_2 =   gone

-   A =   10 as above

$T = T_1^* + A$, $G = T + F$

STA 261-Day   Spring 2008   General Calendar

1   Jan 7
9

8   Mar 3
5

9 deadline to drop

2   14
16 1st tutorial

9   10
12

3   21
23

10   17
19

4   28
30

11   24
26 T_2 ♥

5   Feb 4
6

12   31
Apr 2 A_2 due

6   11
13 T_1 ♥

13   7
9

[reading week #1: 18-22]

[reading week #2: 14-18]

7   25
27 A_1 due

FINALS: Apr.21-May 9