Course Outline STA2212H/453H1

from the private notebook of David Brenner

Jan5, 2015

contact info:

lectures:

Mon, Wed, Fri 10-11

Prof. David Brenner Sid Smith 6016A 416-978-6368 brenner@utstat.toronto.edu office: Wed. 11-12

ref./text:

Brenner, D.:

FROM THE PRIVATE NOTE BOOK:
Illustrated adventures in very (very) mathematical probability & statistics, 2008-15

Fraser, D.A.S. : PROB & STATS: THRY & APPS (1976/2002/8)

Knight, K.: MATH STATS (2000)

Lehmann, E.L.: TESTING STAT HYPs (1957/86) & THRY of PT EST (1986)

Silvey, D.F.: STAT INF (1976)

- -* caution: all contents subject to shuffling, merging, expansion & (really serious) modification
 - the general statistical model: confidence & likelihood
 - estimation theory: consistency, unbiasedness & minimum variance
 - sufficiency & the rao-blackwell theorem exponential models location-scale models
 - the general linear model: correlation, regression & conditional expectation
 - hypothesis testing
 - testing means, variances: differences & ratios
 - neymann-pearson theory & the likelihood ratio test
 - bayesian theory

grading (G):

test
$$(T) = 40$$
 - Wed. Mar. 25
3assignments@20each $(A = A_1 + A_2 + A_3) = 60$

$$G = T + A$$

(NOTE: test T will be held during class time.)