Course Outline STA2112F/452H1

from the private notebook of David Brenner

Sep11, 2019

contact info:

lectures:

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ref./text:

Brenner, D.:

FROM THE PRIVATE NOTE BOOK OF

Illustrated adventures in very (very) mathematical stochastic modelling & statistical inference, 2004-19

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)

topics:

caution: all contents subject to shuffling, merging, expansion & (really serious) modification

- the multivariate distributions of common statistical practice
- probability, expectation & the LLN
- stochastic convergence: weak and strong
- the general linear model: correlation & regression, conditional expectation & bayes' theorem
- characteristic functions, rotational invariance & the cràmer-wold device
- order statistics & permutation invariance

grading (G):

$$test(T) = 40$$
 - Wed. Oct. 30

final
$$(F) = 60 - \text{Dec. 7-20}$$

$$G = T + F$$

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