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Office Hours: Mondays, Wednesdays 15:00–16:30, and by appointment.

Prerequisite: STAT 250; STAT 349 previously or concurrently.


Final Grade: The final grade will be based on the higher of (a) or (b):
a) Homework 10%, term exam (**FRI., 23 OCT. , 2015**) 20% and final exam 70%
b) Final exam 100%

Note: - All assignments should be done **independently**.
- MAST 672/881Y students will be given additional assignment/exam problems.

Topics:

1. Distribution of functions of several random variables (distribution function technique, change of variable technique), sampling distribution of mean and variance of a sample from Normal (\(\mu, \sigma^2\)) distribution: *Sec. 2.2, 2.7*.
4. Sufficiency, minimal sufficiency, completeness, UMVUE, Rao-Blackwell and Lehman-Scheffe theorems: *Sec. 7.2 - 7.8*.
5. Bayesian inference *6th Edition: Sec. 11.2.1 – 2, 7th Edition: Sec. 11.2.1 - 4*.
6. Hypothesis testing *6th Edition: Sec. 5.5, 6.3 6.5, 7th Edition: Sec. 4.5, 6.3, 6.5*. 

Departmental website ➔ [http://www.mathstat.concordia.ca](http://www.mathstat.concordia.ca)