Stat3558 Course outline

Instuctor: Mohamedou Ould-Haye

Office: HP5239

Tel. 613 520 2600 x 1287

Place: tutorial & lectures: TB215.

Time: 11:30am-12:30pm (F, tutorial) & 1-2:30pm (WF, lectures)

Office hours: 11am-12pm (W) and 1-2pm (Th.)

Textbook: Introduction to mathematical statistics, 7th edition,

By Hogg, McKean, and Craig. Pearson edition.

Grading: 4 assignments (20%), 2 tests(30%) and final(50%).

Late assignments are not accepted. Missed assignments/tests will result in a zero mark, except with documented reason, where mark will be added to the final. **No makeup** test or assignment.

Week	Section	Details
1-2	1.1-1.10	Probability and distributions,
		conditional probability,
		independence, discrete and
		continuous random variables,
		transformations, expectations,
		some inequalities.
3-4	2.1-2.5, 2.8	Joint distribution, expectation,
Assignment 1 Due Oct. 17 and		conditional distributions,
Test #1 (covering Ch. 1&2) on		transformations, correlation,
Fri. Oct.20, 6pm, place TBA.		independent variables, linear
		combinations of random
		variables.
5-7	3.1-3.6	Special distributions, Binomial
Assignment 2 Due Oct. 31		and related distribution, Poisson,
		Gamma, chi square, Beta
		distributions, normal, F and t
		distributions, Student theorem.
8-10	4.1-4.4, 4.8-4.9	Sampling and statistics,
Assignment 3 Due Nov. 14, and		estimation methods, Confidence
test #2 (covering Ch. 3&4) On Fri.		intervals, order statistics,
Nov. 16, 6pm, place TBA.		Method of Monte Carlo for
		simulation, Bootstrap methods
		for estimation.
11-12	5.1.5.3	Consistency and limit theorems,
Assignment 4 Due Dec. 5.		convergence in probability, in
		distribution, Delta method,
		moment generating function
		technique, central limit theorem.