Math 151. Probability **Fall 2013**

Tentative Schedule of Lectures and Examinations

Date		**Topic**
W	Sep. 4	Introduction: A problem from statistical inference
F	Sep. 6	Sample Spaces
M	Sep. 9	σ-fields
W	Sep. 11	Probability function
F	Sep. 13	Probability function (continued)
M	Sep. 16	Independent events
W	Sep. 18	Conditional probability
F	Sep. 20	Continuous and discrete random variables
M	Sep. 23	Cumulative distribution function (cdf)
W	Sep. 25	Probability density function (pdf)
F	Sep. 27	Probability mass function (pmf)
M	Sep. 30	Review
W	Oct. 2	Review
F	Oct. 4	**Exam 1**
M	Oct. 7	Continuous random variable and probability density function (pdf)
W	Oct. 9	Expectation of a random variable
F	Oct. 11	Expectation of a function of a random variable
M	Oct. 14	Expectation of a function of a random variable (continued)
W	Oct. 16	Examples of random variables
F	Oct. 18	Moments, variance and moment generation function
M	Oct. 21	*Fall Recess (No Class)*
W	Oct. 23	Joint distribution functions
F	Oct. 25	Joint distribution functions (continued)
M	Oct. 28	Marginal distributions
W	Oct. 30	Marginal distributions (continued)
F	Nov. 1	Problems
M	Nov. 4	Review
W	Nov. 6	**Exam 2**
F	Nov. 8	Independent random variables

Date		**Topic**
M	Nov. 11	mgf convergence theorem
W	Nov. 13	The Central Limit Theorem
F	Nov. 15	Simple random samples

M	Nov. 18	Mean and variance of random samples
W	Nov. 20	Sampling distribution
F	Nov. 22	Conditional distribution
M	Nov. 25	Conditional expectation
W	Nov. 27	Problems
F	Nov. 29	*Thanksgiving Recess*
M	Dec. 2	Covariance and correlation
W	Dec. 4	Review
F	Dec. 6	**Exam 3**
M	Dec. 9	Review
W	Dec. 11	Review
Th	Dec 19	**Final Examination**