Math 152. Statistical Theory **Fall 2009**

Tentative Schedule of Lectures and Examinations

Date			Topic
W	Sep	2	Introduction: A problem from statistical inference
F	Sep	4	Sampling
M	Sep	7	Sampling (continued)
W	Sep	9	Estimating the mean
F	Sep	11	Estimating the mean (continued)
M	Sep	14	Approximate interval estimates
W	Sep	16	Interval estimates (continued)
F	Sep	18	The χ^2 and t-distributions
M	Sep	21	Goodness of fit
W	Sep	23	Introduction to hypothesis testing
F	Sep	25	Hypothesis tests (continued)
M	Sep	28	Review
W	Sep	30	**Exam 1**
F	Oct	2	Maximum likelihood estimation
M	Oct	5	Maximum likelihood estimation (continued)
W	Oct	7	Efficiency
F	Oct	9	Rao-Cramer lower bound
M	Oct	12	Maximum likelihood tests
W	Oct	14	Maximum likelihood tests (continued)
F	Oct	16	Sufficiency
M	Oct	19	*Fall Recess*
W	Oct	21	Sufficiency (continued)
F	Oct	23	Completeness and independence
M	Oct	26	Completeness and independence (continued)
W	Oct	28	Review
F	Oct	30	**Exam 2**
M	Nov	2	Power of hypothesis tests
W	Nov	4	Power of hypothesis tests (continued)
F	Nov	6	The Neyman-Pierson lemma

Date			Topic
M	Nov	9	Interval estimates (revisited)
W	Nov	11	Likelihood ratio tests
F	Nov	13	Likelihood ratio tests (continued)
M	Nov	16	Introduction to Bayesian inference
W	Nov	18	Bayesian procedures
F	Nov	20	Bayesian procedures (continued)
M	Nov	23	Bayesian procedures (continued)
W	Nov	25	Problems
F	Nov	27	*Thanksgiving Recess*
M	Nov	30	Problems
W	Dec	2	Review
F	Dec	4	**Exam 3**
M	Dec	7	Review
W	Dec	9	Review
Tu	Dec	17	**Final Examination**