

Nipissing University
 Department of Computer Science & Mathematics
MATH 2076 - Probability & Statistics I
 Winter 2011

Schedule of Lectures

Date	Topic	Homework
Jan 10	Introduction to the course	
Jan 12	Chapter 1 What is Statistics?	
Jan 17	Sections 2.1-2.3 Probability and Inference, Set Notation	
Jan 19	Sections 2.4-2.5 Probabilistic Model for an Experiment, The Sample Point Method	
Jan 24	Section 2.6 Counting Sample Points	
Jan 26	Sections 2.7-2.8 Conditional Probability, Independence of Events, Laws of Probability	HW#1 Due
Jan 31	Sections 2.9-2.10 Composition of Events, Bayes' Rule	
Feb 02	Sections 2.11-2.12 Random Variables and Random Sampling	
Feb 07	Sections 3.1-3.3 Discrete Random Variables, Probability Distribution, Expected Value	
Feb 09	Section 3.4 Binomial Distribution	HW#2 Due
Feb 14	Sections 3.5, 3.7 Geometric and Hypergeometric Distributions	
Feb 16	Section 3.8 Poisson Distribution	
Feb 21	Study Week	
Feb 23	Study Week	
Feb 28	Review for the Midterm	
Mar 02	Midterm Exam	HW#3 Due
Mar 07	Section 3.9 Moments and Moment-Generating Functions	
Mar 09	Section 3.11 Tchebysheff's Theorem, Summary of Chapter 3	
Mar 14	Sections 4.1-4.2 Probability Distribution for a Continuous Random Variable	
Mar 16	Sections 4.3-4.4 Expected Value, Uniform Distribution	HW#4 Due
Mar 21	Sections 4.5-4.6 Normal Distribution, Gamma Distribution	
Mar 23	Section 4.7, 4.9-4.10 Beta Distribution, Other Expected Values, Tchebysheff's Theorem	
Mar 28	Section 4.11 Mixed Probability Distributions	
Mar 30	Sections 5.1-5.2 Bivariate and Multivariate Probability Distributions	HW#5 Due
Apr 04	Sections 5.3-5.4 Marginal and Conditional Probability Distributions, Independent Random Variables	
Apr 06	Course Review	HW#6 due

The schedule is subject to adjustments by the instructor