



STAT 270

Introduction to Probability and Statistics

Fall 2010
Day Course
Statistics Workshop

Students requiring accommodations as a result of disability, must contact the Centre for Students with Disabilities 778-782-3112 or csdo@sfu.ca

Instructor: [Dr. Tim Swartz](#)
Lab Instructor: [Robin Insley](#)

Prerequisite: n AID 8 (n) T S 1 Pret 6 8 m 10 1 4 T 0 1 9 T c 0 T w 10 9 0 10 8 0 n (D 1 4 AID 1 3 C 0 0 10 9 7 3 2 8 T m (11 AID 11 0

thed., by J. Devore, Duxbury Publishers.

Calendar Description:

Basic laws of probability, sample distributions. Introduction to statistical inference and applications. **Quantitative**

Outline:

1. Introduction to descriptive statistics and chance phenomena.
2. Elementary probability rules, basic combinatorial formulae, conditional probability, independence, and Bayes' theorem.
3. Binomial, hypergeometric, and Poisson distributions.
4. Expectation and variance.
5. Continuous distributions, uniform, exponential, gamma, and normal distributions, normal approximation to the binomial distribution.
6. Introduction to sampling distributions with application to basic h