

Course Outline

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Course Title: Introduction to Probability and Statistics

Course Code: STAT 270

Fall 2011

Credits: 3

Section: C100

Course Description:

This is one of the first courses in probability and mathematical statistics: Basic laws of probability, sample distributions, introduction to statistical applications.

The course consists of the following general topics:

1. Introduction to descriptive statistics
2. Concepts of probability and tools for calculating probability
3. Discrete distributions: Variables, expectations and Binomial and Poissons distributions
4. Continuous distributions: Normal, gamma, and exponential distributions, normal approximation to Binomial distribution, jointly distributed random variables, the central limit theorem
5. Inference: Single samples-estimation, hypothesis testing
6. Inference: Two samples-normal, large samples, and paired cases

Requisite:

Corequisite(s): MATH 152 or 155 or 158.

Students wishing an intuitive appreciation of a broad range of statistical strategies may wish to take STAT 100 first.

Quantitative.

Textbook:

- Swartz, Tim. [INTRODUCTION TO PROBABILITY AND STATISTICS](#). (Custom) Pearson Education

Course Material:

All course material available online the first day of classes

Course Requirements:

Assignment/Exam	Percentage
Assignment 1	5%
Assignment 2	5%
Assignment 3	5%
Mid-term Exam	30%
Final Exam	55%

Requirements Notes:

To pass the course, you must pass the final exam.

Students are responsible for following all exam policies and procedures (e.g., missing an exam due to illness) available [here](#).

Fees:

- [Course materials & service fee](#) \$40.00 CAD

Delivery Method:

- [WebCT](#)

- LON-CAPA

Delivery Notes:

LON CAPA (a web based course management system accessed through your browser) will be used for practice problems.