

**COURSE SYLLABUS  
FOR  
INTRODUCTORY PROBABILITY AND STATISTICS  
(STA/MTH 169) – SPRING 2008  
CLASS LOCATION: LDB 219 -- MEETING TIME 1 – 2 MWF**

**TITLE:** Introductory Probability and Statistics

**INSTRUCTOR:** Lindsay Brown

**PHONE:** 294-3518

**OFFICE:** LDB 404

**OFFICE HOURS:** 9:30 - 11:00 MF  
10:00 – 12:00 T  
& by appointment

**TEXT:** *Elementary Statistics: A Step by Step Approach – A Brief Version, Fourth Edition*, by Allen G. Blumen, McGraw-Hill, 2008.

**DESCRIPTION:** This course covers the fundamentals of statistical concepts and will guide the student through basic statistical procedures to permit critical insight into the science of collecting, classifying, presenting, and interpreting information from data. The topics covered include descriptive statistics (graphic presentation of data, histograms, plots, charts, etc.), measures of central tendency, dispersion, and position, probability concepts and rules for calculating probabilities of compound event. This coverage includes the more commonly occurring probability distributions such as the binomial and normal distributions. Inferential statistics is emphasized in the latter part of the semester; this coverage includes confidence intervals and hypothesis testing (including tests on single population parameters as well as tests in the two population case).

**OBJECTIVE:** To develop an understanding of and a facility for the concepts and applications of introductory probability and also descriptive and inferential statistics.

**APPROACH:**

1. Lectures on new concepts and applications.
2. Assigned problems for experience and familiarity with techniques.
3. Classroom discussions on applications --- appropriate usage and value.
4. Examinations to demonstrate understanding and ability to utilize methods.

**APPRAISAL:**

Exam I.....	30%
Exam II.....	30%
Final Exam.....	25%
Homework/Quizzes.....	15%
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TOTAL	100%

**SPECIAL NOTE:** Performance on exams is directly related to success on homework --- all homework is to be kept current, neatly together, in sequence, and ready to be handed in upon request.

**POLICIES:**

1. **Make-up Exams --- DO NOT MISS AN EXAM!!** Make-up exams are to be avoided. If you miss an exam because of illness and have a doctor's release, all makeup exams will be given at an arranged time in the last couple days of the semester.
2. **Withdrawal --- University policy will be followed:** the last day for drop/withdrawal is as documented in the Schedule of Classes for this semester. It is your personal responsibility to initiate and complete the drop/withdrawal process.
3. **Homework ---** Since topics in the course sequence build upon preceding topics, it is expected that you will remain current in all assignments; also you should have your homework neatly assembled together at all times and be ready to hand it in upon request.
4. **Incomplete ---** A grade of "X" or "Incomplete" is not appropriate for this course.
5. **Attendance ---** Since lectures and in-class discussions are for you, you are expected to be in attendance at all classes.
6. **Class Behaviour --** Students will refrain from behavior in the classroom that intentionally or unintentionally disrupts the learning process and, thus, impedes the mission of the university. Cellular telephones and pagers must be turned off before class begins. Students are prohibited from eating in class, using tobacco products, making offensive remarks, reading newspapers, sleeping, talking at inappropriate times, wearing inappropriate clothing, or engaging in any other form of distraction. Inappropriate behavior in the classroom shall result in a directive to leave class. Students who are especially disruptive also may be reported to the Dean of Students for disciplinary action in accordance with university policy.
7. **Academic Honesty ---** All work that is handed in for evaluation is to reflect solely your individual performance. All students are expected to engage in all academic pursuits in a manner that is above reproach. Students are expected to maintain complete honesty and integrity in the academic experiences both in and out of the classroom. Any student found guilty of dishonesty in any phase of academic work will be subject to disciplinary action. The University and its official representatives may initiate disciplinary proceedings against a student accused of any form of academic dishonesty including, but not limited to, cheating on an examination or other academic work which is to be submitted, plagiarism, collusion and the abuse of resource materials.

**COURSE  
SEQUENCE**

**WEEK 1: Chapter 1: Introduction -- The Nature and Probability of Statistics**

**WEEK 2: Chapter 2: Numerically Summarizing Data – Bar Charts, Pie Charts,  
Histograms, Pareto Charts, and Other Descriptive Charts**

**WEEK 3: Chapter 3: Numerically Summarizing Data – Measures of Central Tendency,  
Variation, Position and Associated Topics**

**WEEK 4: Chapter 3: Continued – Numerically Summarizing Data**

**WEEK 5: Review and Exam 1**

**WEEK 6: Chapter 4: Probability and Counting Rules**

**WEEK 7: Chapter 4: Probability and Counting Rules (Continued)**

**WEEK 8: Chapter 5: Discrete Probability Distributions (Continued)**

**WEEK 9: Spring Break Week**

**WEEK 10: Chapter 6: The Normal Distribution**

**WEEK 11: Chapter 6: The Normal Distribution (Continued)**

**Review and Exam 2**

**WEEK 12: Chapter 7: Confidence Intervals and Sample Size**

**WEEK 13: Chapter 8: Hypothesis Testing – Inferences in the Single Population Case**

**WEEK 14: Chapter 8: Hypothesis Testing (Continued)**

**WEEK 15: Chapter 9: Inferences in the Two Population Case**

**WEEK 16: Chapter 9: Inference in the Two Population Case (Continued)**

**WEEK 17: Review and Final Exam**

**HAVE A FANTASTIC SEMESTER!!**