Overview

Business Statistics introduces business and economics students to basic statistical procedures and concepts used in the business world. The course covers descriptive statistics, basic probability concepts and rules, discrete and continuous probability distributions, sampling distributions, interval estimation, and hypothesis testing.

Pre-requisites for this course include successful completion of a course in calculus (MATH 1130, 1331, 1334, or the equivalent) and sophomore standing.

Objectives

Successful students in the class will develop:

- a robust understanding of fundamental concepts of statistics;
- the ability to describe and analyze qualitative and quantitative data;
- the ability to apply basic probability rules and an understanding of unconditional, conditional, and joint probabilities;
- the ability to use Microsoft Excel to generate statistical results;
- the ability to critically evaluate and interpret statistical findings;
- an appreciation of the use of statistics in the analysis of business and economic issues;
- the ability to communicate the results of statistical analysis accurately and concisely;
- an appreciation of the complexity of statistical analysis.

Materials


Electronic Packet available at https://create.mcgraw-hill.com/shop/. Search for my last name and select the packet corresponding to this course and this term.
Assignments, Quizzes, and Exams

In addition to reading the relevant chapters of the textbook, assignments include recommended problem sets for each chapter; class and online discussions of case studies, statistical applications, newspaper and magazine articles, homework problems, and other issues; and three projects based on statistical applications. I will post recommended problems, links to assigned articles, and online discussion prompts on Canvas. The projects based on statistical applications require you to determine which statistics are relevant, generate these statistics with Microsoft Excel, and interpret and communicate your results in a clear and professional manner to a non-technical audience. Please submit these assignments on Canvas prior to the start of class. I cannot accept papers following our in-class discussion. The first assignment includes two components due on different dates.

The course includes six quizzes and two exams. Quizzes and exams may not be rescheduled.

Grading

<table>
<thead>
<tr>
<th>Assignment</th>
<th>Percentage</th>
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<tbody>
<tr>
<td>Quizzes (Best Five)</td>
<td>15%</td>
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<tr>
<td>Exams</td>
<td>45%</td>
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<tr>
<td>Projects</td>
<td>30%</td>
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<tr>
<td>Participation in Class and Online Discussions</td>
<td>10%</td>
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Academic Honesty

In keeping with the mission of the school and university, students are expected and required to conform to the norms of academic honesty. Academic misconduct will be dealt with harshly. Academic misconduct includes (but is not limited to) using unauthorized written or electronic materials on a quiz or exam, copying another student’s quiz or exam or allowing another student to copy yours, and passing off someone else’s writing or ideas as your own in writing assignments. Possible consequences for academic misconduct range from zero credit on an assignment to failing the class.

Special Accommodations

If you have, or think you may have, a disability (including an ‘invisible disability’ such as a learning disability, a chronic health problem, or a mental health condition) that interferes with your performance as a student in this class, you are encouraged to arrange support services and/or accommodations through Disabilities Services staff in the Learning Center. Disability-based adjustments to course expectations can be arranged only through this process.

Use of Technology

With the exception of two Microsoft Excel practice sessions, you are not allowed to use laptops, cell phones, or similar forms of technology during class. Surfing the web, texting, and other uses
of technology are distracting to students and instructors alike and ultimately detrimental to the learning environment. A violation of this policy may result in appropriate grade sanctions.

Title IX

Title IX of the Education Amendments of 1972 (Title IX) prohibits discrimination based on sex in educational programs or activities that receive federal financial assistance. This prohibition includes sexual misconduct, which encompasses sexual harassment and sexual violence. Seattle University remains committed to providing a safe and equitable learning, living, and working environment. The university offers emergency, medical, and other support resources, as well as assistance with safety and support measures, to community members who have experienced or been impacted by sexual misconduct.

Seattle University requires all faculty and staff to notify the university’s Title IX Coordinator if they become aware of any incident of sexual misconduct experienced by a student.

For more information, please visit https://www.seattleu.edu/equity/. If you have any questions or concerns, you may also contact the Title IX Coordinator in the Office of Institutional Equity (email: oie@seattleu.edu; phone: 206.296.2824)
# Tentative Schedule

<table>
<thead>
<tr>
<th>Date</th>
<th>Events</th>
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| April 3 | **Course Overview**  
Chapter 1: An Introduction to Statistics  
Chapter 2: Descriptive Statistics I |
| April 5 | **Chapter 2: Descriptive Statistics I**  
Chapter 3: Descriptive Statistics II |
| April 10| **Quiz 1**  
Chapter 3: Descriptive Statistics II |
| April 12| **Excel Practice Session 1 | Laptops Provided**  
Chapter 4: Probability |
| April 17| **Project 1 | Reyem Affiar: Statistical Tables Due**  
Chapter 4: Probability |
| April 19| **Quiz 2**  
Chapter 4: Probability |
| April 24| **Chapter 5: Discrete Probability Distributions** |
| April 26| **Quiz 3** |
| May 1   | **Project 1 | Reyem Affiar: Report Due | Class Discussion**  
Chapter 6: Continuous Probability Distributions |
| May 3   | **Chapter 6: Continuous Probability Distributions**  
Chapter 7: Statistical Inference |
| May 8   | **Exam 1** |
| May 10  | **Project 2 | Stocks A and B: Letter to Client Due | Class Discussion**  
Chapter 7: Statistical Inference |
| May 15  | **Chapter 7: Statistical Inference**  
Chapter 8: Interval Estimates for Proportions, Mean Differences, and Proportion Differences |
| May 17  | **Quiz 4**  
Chapter 8: Interval Estimates for Proportions, Mean Differences, and Proportion Differences  
Chapter 9: Statistical Hypothesis Testing |
| May 22  | **Chapter 9: Statistical Hypothesis Testing** |
| May 24  | **Quiz 5**  
Chapter 9: Statistical Hypothesis Testing |
| May 29  | **Chapter 10: Hypothesis Tests for Proportions, Mean Differences, and Proportion Differences**  
**Excel Practice Session 2 | Laptops Provided** |
| May 31  | **Quiz 6**  
Chapter 9: Statistical Hypothesis Testing  
Chapter 10: Hypothesis Tests for Proportions, Mean Differences, and Proportion Differences |
| June 5  | **Chapter 9: Statistical Hypothesis Testing**  
Chapter 10: Hypothesis Tests for Proportions, Mean Differences, and Proportion Differences |
| June 7  | **Chapter 9: Statistical Hypothesis Testing**  
Chapter 10: Hypothesis Tests for Proportions, Mean Differences, and Proportion Differences  
**Project 3 | American Community Survey Report Due | Class Discussion** |
| June 14 | **Exam 2**  
4:00-5:50 p.m. |

This schedule is tentative. See Canvas for up to date information. I may give quizzes at any time on the dates scheduled above.