General Expectation

The course covers basic statistical techniques for analysis of economics and business data. You will be expected to: (1) communicate the meaning of variation in economics and business, (2) use real data and real business applications requiring a decision based on quantitative information, (3) incorporate current statistical practices and appropriate analytical tools, and (4) provide more in-depth explanation of why and when some technique should or should not be used and perform calculations using handheld calculator (and optionally using Microsoft Excel). In the first week of class, you will be assumed to have a working knowledge of algebra. By the second half of the course, you need to be acquainted with calculus (derivatives and integrals) from MATH 111 or an alternative calculus course.

Required Materials

- A scientific calculator.

Class Participation, Exams, and Grading Policy

Participation in each class session is essential for you to obtain the full benefit from the course. The class meetings will rely on discussion, group work, and other activities that require direct physical presence in the classroom. For each class that you miss 5% of your participation grade will be deducted. You may miss three classes over the semester without penalty. However, tardiness will not be tolerated because it disrupts other students from learning.

There will be two midterm exams and random participation measurements taken in the lecture hall. There will be weekly homework assignments (which may use the spreadsheet Excel), that needs to be completed in Aplia. Assignments must be completed on time, so that they can be graded automatically in Aplia. No credit for late assignments. The final exam will be comprehensive.

There will be no make-ups on exams or other assignments. If you have an excused absence with prior approval from me and miss any midterm exam, the weight of the missed exam will be placed on the comprehensive final. Under no circumstances will you be allowed to miss more than one exam, and you must take the final.
Your numerical course grade will be determined according to the following weights:

<table>
<thead>
<tr>
<th>Component</th>
<th>Weight</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Participation</td>
<td>20%</td>
<td>Random participation measurements</td>
</tr>
<tr>
<td>Assignments</td>
<td>10%</td>
<td>Weekly homework assignments in Aplia</td>
</tr>
<tr>
<td>Midterm Exam 1</td>
<td>18%</td>
<td>Monday, February 21, 11:45 a.m.-12:35 p.m.</td>
</tr>
<tr>
<td>Midterm Exam 2</td>
<td>18%</td>
<td>Monday, April 11, 11:45 a.m.-12:35 p.m.</td>
</tr>
<tr>
<td>Final Exam</td>
<td>34%</td>
<td>Tuesday, May 3, 4:30 p.m.-7:00 p.m.</td>
</tr>
<tr>
<td>Total</td>
<td>100%</td>
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Grades will be assigned on the basis of relative performance, but anyone earning over 90, 80 or 60 percent of the points will be assured respectively of an A, B or C range letter grade.

**Miscellaneous**

If you require accommodations for a disability, religious belief, scheduling conflict, or other impairment that might affect your successful completion of this course, you must personally present the request in written (signed and dated) form to me within the first four meetings. Requests for special accommodations made after that will not be considered.

As a final note, I want to wish all of you good luck in this course and I encourage you to see me if you are having difficulty with the course material or need to discuss something with me. You can stop by my office during office hours, or schedule an appointment. I can also be reached through e-mail or voice mail. Please do not hesitate to see me if you have any questions or concerns.

**Course Outline and Tentative Timetable**

Keep in mind that although I have given you a course outline, I reserve the right to make what I consider reasonable adjustments to it.

1. **Weeks 1-2 (January 12-January 21)**
   - Chapter 1: Data and Statistics 1.1-1.5
   - Chapter 2: Descriptive Statistics: Tabular and Graphical Presentations 2.1-2.2, 2.4

2. **Weeks 3-4 (January 24-February 4)**
   - Chapter 2: Descriptive Statistics: Tabular and Graphical Presentations 2.1-2.2, 2.4
   - Chapter 3: Descriptive Statistics: Numerical Measures 3.1-3.3, 3.5-3.6

3. **Weeks 5-6 (February 7-February 18)**
   - Chapter 4: Introduction to Probability 4.1-4.4
   - Chapter 5: Discrete Probability Distributions 5.1-5.5

**Midterm Exam 1:** Monday, 11:45 a.m. - 12:35 p.m., February 21, 2011

4. **Weeks 7-8 (February 23-March 4)**
   - Chapter 6: Continuous Probability Distributions 6.2
   - Chapter 7: Sampling and Sampling Distributions 7.1-7.6

5. **Weeks 9-10 (March 14-March 25)**
   - Chapter 7: Sampling and Sampling Distributions 7.1-7.6
   - Chapter 8: Interval Estimation 8.1-8.4
6. Weeks 11-12 (March 28-April 8)

   Chapter 8: Interval Estimation  8.1-8.4
   Chapter 9: Hypothesis Tests   9.1-9.5

Midterm Exam 2: Monday, 11:45a.m. - 12:35p.m., April 11, 2011


   Chapter 12: Simple Linear Regression  12.1-12.5
   Chapter 13: Multiple Regression    13.1-13.3

Final Exam: Tuesday, 4:30p.m. - 7:00p.m., May 3, 2011