Instructor: Zhenmin Chen, Ph.D.

Office: DM 403B
Phone: 305-348-1081
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Class Meeting Time: Tuesdays & Thursdays 18:30-21:50

Office Hours: Tuesdays & Thursdays 17:00-18:15


Prerequisite: Graduate Standing

Coverage

• Introduction: What is Statistics?
• Looking at Data - Distribution
  Measurement; stemplots, histograms and time plots for numerical variables; frequency distributions for categorical variables. Measures of central tendency and variability; box-plots. Density curves; the normal distribution; and assessing normality.
• Producing Data:
  Design of experiments; sampling design; sampling distributions.
• The Study of Randomness:
  The basic concepts of probability using two-way tables; probability laws.
• From Probability to Inference
  The sampling distribution of the sample mean and the central limit theorem.
• Introduction to Inference:
  Confidence intervals; tests of significance; uses and abuses of tests of significance.
• Inference for Distributions:
  Inference for the mean of a population using t-tests.
• Inference for Count Data:
  Inferences for a single proportion.

SPSS will be used in this class.

Tests and Exam

1. Keep four decimal places for all your answers. Caution: You may lose points for tests and/or exams if you fail to do so.
2. Completely mark out any work which you do not want to show to the instructor. If you provide two or more solutions to the same problem the worst one will be picked for grading.
3. You must show your complete work to receive full/partial credit for all the problems except True/False problems and Multiple Choice problems.
4. To receive credit for True/False problems and Multiple Choice problems, correct answers must be circled. If you fail to circle the correct answer or circle more than one answer, you will get no credit for that question. Your work for True/False problems and Multiple Choice problems will be ignored.
5. Do not use red pen. The instructor will use this color for grading.

**Grading**

1. Your grades will be based on four tests (60%) and the comprehensive final exam (40%).
2. The lowest test score will be dropped before averaging.
   Note: The final exam score will not be dropped.
3. No makeup tests will be given.

**Grading Scale**

<table>
<thead>
<tr>
<th>Range</th>
<th>Grade</th>
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<tbody>
<tr>
<td>90%-100%</td>
<td>A</td>
</tr>
<tr>
<td>87%-89%</td>
<td>A−</td>
</tr>
<tr>
<td>84%-86%</td>
<td>B+</td>
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<tr>
<td>80%-83%</td>
<td>B</td>
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<tr>
<td>77%-79%</td>
<td>B−</td>
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<tr>
<td>74%-76%</td>
<td>C+</td>
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<tr>
<td>70%-73%</td>
<td>C</td>
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<tr>
<td>67%-69%</td>
<td>C−</td>
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<tr>
<td>64%-66%</td>
<td>D+</td>
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<tr>
<td>60%-63%</td>
<td>D</td>
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<tr>
<td>57%-59%</td>
<td>D−</td>
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<tr>
<td>0%-56%</td>
<td>F</td>
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</tbody>
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**Important Dates**

- May 23 (Thursday)  Test 1
- May 30 (Thursday)  Test 2
- June 6 (Thursday)  Test 3
- June 10 (Monday)   Last day to drop this class
- June 13 (Thursday) Test 4
- June 20 (Thursday) Final Exam
- June 25 (Tuesday)  Grades Posted

All the test and exam dates are listed here. Before you decide to register, please make sure that you will be available on those dates. No makeup tests will be given.

Florida International University is a community dedicated to generating and imparting knowledge through excellent teaching and research, the rigorous and respectful exchange of ideas, and community service. All students should respect the right of others to have an equitable opportunity to learn and honestly to demonstrate the quality of their learning. Therefore, all students are expected to adhere to a standard of academic conduct, which demonstrates respect for themselves, their fellow students, and the educational mission of the University. All students are deemed by the University to understand that if they are found responsible for academic misconduct, they will be subject to the Academic Misconduct procedures and sanctions, as outlined in the Student Handbook.

Some course material will be posted on Web. Please check to see if you can read the following symbols and equations successfully.

\[ |x| \quad \frac{\alpha}{\beta} \quad s = \sqrt{\frac{\sum_{i=1}^{n} (x_i - \bar{x})^2}{n-1}} \]

Please make sure you have Adobe Acrobat Reader (Version 5 or above) installed on your computer. Adobe Acrobat Reader is a free software which can be downloaded from the following website: [http://www.adobe.com/](http://www.adobe.com/).