

Elementary Statistics
ORGB- C260-051
Spring 2004

Monday 6²⁰-9⁰⁰pm
Monroe Hall 470

Dr. Wendy L. Hicks
Stallings Hall 105
865-2694

Office Hours: Monday, 3 – 6pm; Tuesday, 3- 6pm, Friday, 3 – 6pm; by appointment

Course Overview:

This course is intended to provide students with an understanding and appreciation of the variety of statistical procedures utilized within the field of criminal justice. Apart from a purely statistical awareness, students will also be exposed to crime policy, national crime reporting mechanisms, policing experiments, and many inappropriate uses of criminal justice data evident in modern society.

Course Objectives:

Students should, at the conclusion of this course, be enabled with the skills and skepticism to detect inappropriate uses of criminal justice data, understand basic mechanisms of crime policy processes, and appreciate the many intricacies of statistical analysis. Students should also be competent in deciding which statistical procedure to utilize in any given situation.

Class Web Site:

The URL for the class web site is www.loyno.edu/~wlhicks/Stats. Please make use of this site. It has served students well in past semesters. Notes from this semester as well as last semester's notes will be added to the site each week. Exercises and problem sets will be added when appropriate as will homework assignments.

Required Text:

Proctor, J.L., & Badzinski, D.M.. (2002). Introductory Statistics for Criminal Justice and Criminology. Upper Saddle River, NJ: Prentice Hall.

Attendance/Participation:

Student attendance is mandatory. The field of statistics can be demanding, with each new topic building on the previous. In order to build a firm foundation of statistical competence students must attend class. Students not in attendance at class meetings will not develop the skills necessary to succeed in this course.

Exams:

There will be three regular exams proctored throughout the semester. Each exam will be worth 100 points. In addition, students will be called upon to complete small tasks in class. Therefore, class participation will be worth 5 points for each class period for a total of 70 points. The final exam will be worth 200 points.

Make-up Exams:

Any student wishing to schedule a make-up exam must contact the instructor PRIOR to the regularly scheduled exam time. Students may telephone, e-mail, or leave a written message for the instructor. Make-up exams will be scheduled for any student failing to make contact prior to the regular exam time and date at the instructor’s discretion.

Grading:

Grades will be calculated based on a points scale. There will be no curving of grades.

The grading scale is as follows:

$$\begin{array}{r}
3 \text{ exams } 100 \text{ points per} = 300 \\
\text{Class participation } 5 \text{ per day} = 75 \\
\hline
\text{Final exam} = 200 \\
\hline
575
\end{array}$$

A	575 – 517.5
B	517 – 460
C	459 – 402.5
D	402 – 345
F	344 - Below

Final Examination:

The final exam will be proctored during the final exam time outlined by the university. The exam will be worth 200 points. There will be no make-up final exams.

Course Schedule:

January 12	Opening Remarks & Syllabus
January 19	Martin Luther King’s Birthday – No Class
January 26	<u>Chapter 1</u> : Purpose of Statistics
February 2	<u>Chapter 2</u> : Foundations of Research <u>Chapter 3</u> : Data Organization

February 9	<u>Chapter 4</u> : Measures of Central Tendency <u>Chapter 5</u> : Measures of Dispersion
<u>February 16</u>	Exam #1: Chapters 1 – 5 [Purpose, Research, Data, Central Tendency, & Dispersion]
February 23	Mardi Gras – No Class
March 1	<u>Chapter 6</u> : Probability Theory <u>Chapter 7</u> : Sample Statistics to Population Parameters
March 8	Easter Holiday – No Class ACJS Conference – I’ll be in Vegas
March 15	<u>Chapter 8</u> : Statistical Analysis for a Population Mean and Proportion: Z Tests
March 22	<u>Chapter 9</u> : Statistical Analysis for Nominal and Ordinal Variables: Chi-Square and Spearman’s Rho
March 29	<u>Chapter 10</u> : Statistical Analysis for Comparing Two Population Means: t Tests
<u>April 5</u>	Exam #2: Chapters 6 – 10 [Probability, Population Parameters, Z, Chi², & t]
April 12	<u>Chapter 11</u> : Statistical Analysis for Comparing Three or More Population Means: Analysis of Variance
April 19	<u>Chapter 12</u> : Statistical Analysis for Assessing Relationships: Correlation <u>Chapter 13</u> : Statistical Analysis for Prediction: Regression
<u>April 26</u>	Exam #3: Chapters 11 – 13 [ANOVA, Correlation, & Regression]
May 3	Last regular class period Review for Final
<u>May 10</u>	Final Exam [Cumulative]