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Elementary Statistics

Schedule #51081

Fall 2010 Syllabus

Tuesdays

6 p.m. to 9:50 p.m.

8/16/2010 through 12/17/2010

Business, Room 43

Instructor: Shelly M. Dorn, Ed.D.

E-mail: shelly.dorn@scccd.edu

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Elementary Statistics (STAT 7)

Prerequisites: Mathematics 103 or two years of high school algebra

Course Description: An introduction to statistical methods and techniques for business and behavioral/social science majors. Topics include: Data Collection and analysis; measures of central tendency and variability; probability theory; discrete and continuous distributions; sampling theory and estimation; hypothesis testing; and correlation/regression analysis.

Required Textbook: Business Statistics (Selected chapters from Statistical Techniques in Business & Economics, Lind, et al

Additional Materials needed: paper or notebook, 2 Scantron 882 forms, calculator, #2 pencils, highlighter, 3 X 5 cards

**Course Outline:**

* Introduction to Statistics
* Describing, Exploring, and Comparing Data
* Probability
  + Fundamentals
  + Counting
  + Distributions
    - Discrete
    - Continuous
* Normal Probability Distributions
* Estimates and Samples
* Hypothesis Testing
  + One Sample
  + Two Samples
* Correlation Analysis/Regression
* Nonparametic Methods

**PARTICIPATION**

Each student is expected to 1) participate in the course and have the necessary entry skills prior to entering the course, 2) read each assigned chapter **before** the class discussion, and 3) be prepared to discuss the current topic and participate in classroom activities. The goal here is to insure that class time will be more helpful to you. To insure your success in this class: participate fully, complete all assignments as due, attend every class, arrive on time, and don’t leave early.

**ATTENDANCE**

Attendance is required and vital for student success in this course. It is the student’s responsibility to inform the instructor, after class, to change an absence to a tardy. Leaving class early will count as an absence.

**WITHDRAWAL FROM COURSE**

If you decide to drop the class, and I hope you don’t, please do not simply stop attending or you may be very unhappy with the grade you receive. *If a student wishes to withdraw from this class, it is that student’s responsibility to do so by the official withdrawal date.*

**CHAPTER HOMEWORK**

Solving homework problems will be important to your success in this class. You will be assigned homework exercises and problems relating to each chapter’s study objectives from your assigned reading. The “Chapter HW's” are worth 10 points. Questions regarding the homework may be asked in class. I recommend that you attempt all homework since you will be tested on ALL chapters. My preference is that you attend class and turn in your homework with everyone else. However, you may submit homework early, but under NO circumstances will late homework be accepted (Please don’t even ask). Each chapter’s homework is to be turned in on the day of the test for that chapter.

**EXTRA HELP**

1. The Instructor is available for assistance and can be contacted via email, shelly.dorn@scccd.edu
2. Classmates can be an excellent resource for study groups. It is recommended that you exchange information with at least 2 classmates in order to study, share notes, etc.

Classmate name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Email: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Classmate name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Email: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**ACADEMIC ACCOMMODATIONS**If you have a verified need for an academic accommodation per the Americans with Disabilities Act or Section 504 of the Rehabilitation Act, please contact your instructor as soon as possible.

**ACADEMIC HONESTY**

Each student is required to do his or her own work. Copying files or assignments is NOT permitted. ***Students found cheating on any assignment or test will automatically fail that assignment or test.*** Avoid embarrassing yourself or anyone else – please do your own work!

**GRADING**

The chapter tests and final exam will make up about 85% of your grade, and the homework and class participation will make up about 15% of your grade. You are encouraged to keep track of your points, and the points offered in the class. The tentative plan is:

Test – Ch. 1 & 2 100 points Homework (10 on each chapter) 130 points

Test – Ch. 3 & 4 100 Final Exam 200

Test – Ch. 5 50 Participation 20 points

Test – Ch. 6 50

Test – Ch. 7 & 8 100 **TOTAL** **1,000 Points**

Test – Ch. 9 & 10 100

Test – Ch. 11 50 A 90 – 100% D 60 – 69%

Test – Ch. 17 50 B 80 – 89% F Below 60%

Test – Ch. 13 50 C 70 – 79%

**Other Classroom Policies:**

Food and drinks are not allowed in any of the classrooms. Cell phones and pagers must be silent and put away. You may not use your cell phone as a calculator.

**Required Items for every class:**

Bring your textbook, calculator, paper/notebook, and pencil/pen to every class session. TI-83 Plus or TI-84 graphing calculators are highly recommended for this course. An acceptable alternative would be a scientific calculator that can handle 2-variable statistics. Presentations in class will be made on a TI-83 or TI-84 graphing calculator.

**No Make-up Exams**

All exams are to be taken as scheduled. No make-up exams will be allowed.

**Last day to drop this course: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

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| **Tentative Schedule – Expect changes as deemed necessary by your instructor, based on class progress.** | | |
| **WEEK** | **Topic** | **Homework** |
| 1 | Chapter 1 – What is Statistics? | Pg 14 & 16, all even |
| 2 | Chapter 2 – Describing Data: Frequency Tables, Frequency Distributions, and Graphic Presentation  TEST – Chapters 1 & 2 | Pg 27 & 33-34, 40 & 44, 60, 62, 65-66, all even |
| 3 | Chapter 3 – Describing Data – Numerical Measures | Pg 75-76, 78, 83, 87-88, all even |
| 4 | Chapter 4 – Describing Data: Displaying and Exploring Data | Pg 105-106, 110, all even  Pg 117, 121-122, all even |
| 5 | TEST – Chapters 3 & 4  Chapter 5 – A Survey of Probability Distrubutions | Pg 148-149, 154-155, all even  Pg 162-163, 172, all even |
| 6 | Chapter 5  TEST – Chapter 5 |  |
| 7 | Chapter 6 – Discrete probability Distributions | Pg 189-191, 197, 198-200, 208, all even; |
| 8 | TEST – Chapter 6  Chapter 7 – Continuous Probability Distributions | Pg 229, 232-233, 235-237, all even |
| 9 | Chapter 8 – Sampling Methods and the Central Limit Theorem | Pg 270-271,277-278, 281, 284, all even |
| 10 | Chapter 8  TEST – Chapters 7 & 8 |  |
| 11 | Chapter 9 – Estimations and Confidence Intervals | Pg 304-305, 308, 310-311, 313-314, 315-317, all even |
| 12 | Chapter 10 – One-Sample Tests of Hypothesis | Pg 345-346, 348-349, 352, 355, all even |
| 13 | TEST – Chapters 9 & 10  Chapter 11 – Two Sample Tests of Hypothesis | Pg 374-375, 380, 384, 390-391, 393-395, all even |
| 14 | Chapter 11  TEST – Chapter 11 |  |
| 15 | Chapter 17 – Nonparametric Measures: Chi-square applications | Pg 651-652, 655-656, 657-660, all even |
| 16 | TEST – Chapter 17  Chapter 13 – Linear Regression & Correlation | Pg 466-467, 472-473, 479, 482-483, 485,491-492, all even |
| 17 | Chapter 13  TEST – Chapter 13 |  |
| 18 | Comprehensive Final Exam |  |