Syllabus

INFO

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OFFICE HOURS: Since this is a distance learning course I plan to be very flexible with office hours in order to meet your needs. Please contact me to set up an appointment.

WEB ADDRESS: http://bb.unco.edu (SRM 602)

REQUIRED READING


COURSE DESCRIPTION

This course is designed to introduce you to basic concepts, issues, and procedures related to descriptive and inferential statistics.

OBJECTIVES

Given information from the course textbook and other course materials, you will:

1. Select the appropriate statistical procedure for a given data set and research question/hypothesis.

2. Conduct statistical analyses using the SPSS computer package, with an emphasis on appropriate interpretation and communication of the results.

3. Discuss issues (such as assumption violations, sample characteristics, and measurement of variables) as they relate to appropriate application and interpretation of statistical procedures.

4. Demonstrate understanding of relationships among various statistical concepts covered in this course and the implications of those relationships for designing and interpreting quantitative research.
GRADING

You are graded on the following criteria, for a total of 100 points:

1. 10 points -- Your bio and picture.
2. 40 points – Four reflection papers **
   Reflection paper 1: Part I (chapters 1-4)
   Reflection paper 2: Part II (chapters 5-7)
   Reflection paper 3: Part III (chapters 8-11),
   Reflection paper 4: Part IV and V (chapters 12, 15, 16, and 17)
   Each student is required to do the reflection paper individually.

   Write a reaction to any of the new ideas generated by the textbook. A reflection paper is NOT a summary of everything you have read. It is an elaboration of part of what you read that is interesting to you. You should have about 1 page single spaced, 12 point, Times New Roman font.

   ** You earn 10 points for each of the reflection paper.
   Rubric: 10 points for "reaction responses" (3 = react to the assigned chapters with minimal depth, 6 = react to the assigned chapters with some depth, 10 = react to the assigned chapters by sharing likes, dislikes, agreements, disagreements, learning, surprises, questions, or other signs of thinking.)

3. 20 points – Midterm Quiz (chapters 1-7 only)
4. 20 points – Final Quiz (chapters 8-12 and 15-17 only)
5. 10 points – peer and instructor evaluation

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<thead>
<tr>
<th>Project</th>
<th>Due Date</th>
<th>Points</th>
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<tbody>
<tr>
<td>Bio and picture</td>
<td>8/31/2015 (Monday)</td>
<td>10</td>
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<tr>
<td>Part I (Chapters 1-4) – Reflection paper 1</td>
<td>9/21/2015 (Monday)</td>
<td>10</td>
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<td>Part II (Chapters 5-7) – Reflection paper 2</td>
<td>10/5/2015 (Monday)</td>
<td>10</td>
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<tr>
<td>Midterm Quiz</td>
<td>10/12/2015 (Monday)</td>
<td>20</td>
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<tr>
<td>Part III (Chapters 8-11) – Reflection paper 3</td>
<td>11/9/2015 (Monday)</td>
<td>10</td>
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<tr>
<td>Parts III and V (Chapters 12, 15, 16, and 17) – Reflection paper 4</td>
<td>11/30/2015 (Monday)</td>
<td>10</td>
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<tr>
<td>Final Quiz</td>
<td>12/7/2015 (Monday)</td>
<td>20</td>
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<tr>
<td>Peer and instructor evaluation</td>
<td>Periodical</td>
<td>10</td>
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<td>Total</td>
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Please note that all projects will be due by Midnight (11:59pm) on Mondays.

100 points possible
90% (90 points and higher) = A
80% (80 - 89 points) = B
70% (70 - 79 points) = C
60% (60 - 69 points) = D
This schedule is based on a "best" guess. Expect some changes. I will be checking our website M-F and will not be checking it on weekends. Therefore, be sure you have questions asked prior to the weekend if you plan to work over the weekend.

At the start of each week, go to the Course Announcement page on the Blackboard website. Your tasks for the week will be listed there. This listing is the same as the information below.

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**Weeks 1 - 2**

**Welcome, Bio, and Picture (Week 1)**

These first two weeks will be very laid back in order to get everyone logged onto the class web site, obtain textbook, and familiar with using some of the features of the online environment.

What you need to do this week:

- you will receive an overview of how to take part in this distance learning environment, including some of the expectations I have of you.
- you will:
  - send me an email (length: at least 300 words) and a picture of yours (.jpg format, Pixel Dimensions: Width <= 150 Pixels, Height: <= 150 pixels)) to let me know who you are. Those information will be posted on the class web site so other students can get to know you
  - inform me of any questions you have about the class and the web site

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**Weeks 3 - 4**

**Part I: Introduction and Descriptive Statistics (Chapters 1-4)**

**Chapter 1: Introduction to Statistics and Chapter 2: Summarizing Data: Tables, Graphs, and Distributions (Week 3)**

What you need to do this week:

- Read chapters 1 and 2 in your textbook and review course materials

**Chapter 3: Summarizing Data: Central Tendency and Chapter 4: Summarizing Data: Variability (Week 4)**

What you need to do this week:

- Read chapters 3 and 4 in your textbook and review course materials
- Write reflection paper 1 (Chapter 1-4).
Weeks 5 - 6
9/21 & 9/28

Chapter 5: Probability and Chapter 6: Probability and Normal Distributions (Week 5)

What you need to do this week:

- Read chapters 5 and 6 in your textbook and review course materials

Chapter 7: Probability and Sampling Distributions (Week 6)

What you need to do this week:

- Read chapter 7 in your textbook and review course materials
- Write reflection paper 2 (Chapters 5-7)

Week 7
10/5

Midterm Quiz (Week 7)

Weeks 8 - 9
10/12 & 10/19

Part III: Making Inferences About One or Two Means (Chapters 8-11)

Chapter 8: Introduction to Hypothesis Testing (Week 8)

What you need to do this week:

- Read chapter 8 in your textbook and review course materials

Chapter 9: Testing Means: Independent Sample t-Tests (Week 9)

What you need to do this week:

- Read chapter 9 in your textbook and review course materials

Weeks 10 - 11
10/26 & 11/2

Chapter 10: Testing Means: Related Samples t-Test (Week 10)

What you need to do this week:

- Read chapter 10 in your textbook and review course materials
Chapter 11: Estimation and Confidence Intervals (Week 11)

What you need to do this week:

- Read chapter 11 in your textbook and review course materials
- Write reflection paper 3 (chapters 8-11).

Weeks 12 - 13

Part IV: Making Inferences about the Variability of Two or More Means (*Chapter 12 only)

Chapter 12: Analysis of Variance: One Way Between-Subjects Design (Week 12)

What you need to do this week:

- Read chapter 12 in your textbook and review course materials

Part V: Making Inferences about Patterns, Frequencies, and Ordinal Data (*Chapter 15, 16 and 17 only)

Chapter 15: Correlation (Week 13)

What you need to do this week:

- Read chapter 15 in your textbook and review course materials

Week 14 - 15

Chapter 16: Linear Regression and Chapter 17: Nonparametric Tests: Chi-Square Tests (Week 14)

What you need to do this week:

- Read chapters 16 and 17 in your textbook and review course materials
- Write reflection paper 4 (chapters 12, 15, 16, and 17 only).

Work on Final Quiz (Week 15)

Week 16

Submit Final Quiz (Week 16)
ACCOMMODATIONS STATEMENT

Students who believe that they may need accommodations in this class are encouraged to contact the Disability Support Services, Voice/TTY (970) 351-2289, or fax (970) 351-4166, or visit www.unco.edu/dss as soon as possible to ensure that accommodations are implemented in a timely fashion.

INCLUSIVITY STATEMENT

The College of Education and Behavioral Sciences (CEBS) supports an inclusive learning environment where diversity and individual differences are understood, respected, appreciated, and recognized as a source of strength. We expect that students, faculty, administrators and staff within CEBS will respect differences and demonstrate diligence in understanding how other peoples' perspectives, behaviors, and worldviews may be different from their own.