U296-241 Business Statistics

Course Format: Online

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Course credits: 3

Prerequisites: Completion of a college-level mathematics course with a C or better, or the equivalent.

Course Description:
This course is designed to give you the ability to analyze data in a useful way. It should also provide you with the capacity to understand how you and others use (and abuse!) data and the information available from it. Topics include the description of both nominal and quantity data, probability distributions, statistical inference (estimation and hypothesis testing), and regression analysis. This course will provide you with the practical skills needed in business, science, the public sector, and other areas of society, where analysts and decision-makers need to draw conclusions from data, which will in turn better inform the decisions they must make. In essence, we will learn to analyze, collect, and organize data as well as how to use that data for practical decision making.

Required Course Materials

- Access to Excel

Hardware Requirements
You will need a webcam, speakers, and a microphone. You will complete your exams through an online proctor, requiring all three components.

Course Learning Objectives

1. Summarize collected data to understand the variable(s)
2. Apply the concepts of probability to probability distributions
3. Make a statement about the population from a sample of data

Course Overview

<table>
<thead>
<tr>
<th>UNIT #</th>
<th>UNIT TOPIC</th>
<th>EVALUATED ACTIVITIES</th>
</tr>
</thead>
<tbody>
<tr>
<td>Unit 1</td>
<td>introduction</td>
<td>Smartbook: Ch. 1 and Ch. 2</td>
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<td></td>
<td></td>
<td>Quizzes: Ch. 1 and Ch. 2</td>
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<tr>
<td>Unit 2</td>
<td>Describing Data</td>
<td>Smartbook: Ch. 3 and Ch. 4</td>
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<td></td>
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<td>Quizzes: Ch. 3 and Ch. 4</td>
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<td></td>
<td></td>
<td>Homework: Ch. 3 and Ch. 4</td>
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<td></td>
<td></td>
<td>Test #1 (Chapters 1 through 4)</td>
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<tr>
<td>Unit 3</td>
<td>Probability</td>
<td>Smartbook: Ch. 5, Ch. 6, and Ch. 7</td>
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**Evaluation Methods**

Your final grade will be based on your performance on the following:

1. **Smartbook (Online Chapter Reviews)** Ch. 1-10 and Ch. 12-13 (30 points each)
2. **Quizzes (Online Chapter Quizzes)** Ch. 1-10 and Ch. 12-13 (50 points each)
3. **Homework** Ch. 3-10 and Ch. 12-13 (Units 2-3, 5-6 60 points each, Unit 4 30 points each)
4. **Tests** (Tests #1 and #2 200 points each, Test #3 300 points, Test #4 180 points)

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**Smartbook (360 points in total)**
These assignments are chapter review questions, through the CONNECT software designed as reading and topic comprehension.

**Quizzes (600 points in total)**
These quizzes are designed to demonstrate student mastery of important chapter material, through the CONNECT software.

**Homework (270 points in total)**
These assignments, submitted through Canvas “Assignments,” are graded by your instructor and concentrate on applications of the course material.

**Tests (880 points in total)**
The periodic examinations are designed to demonstrate student mastery of important material and are graded by your instructor.

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**Exam Method: Online with Proctoring**
This course requires all students to complete 4 exams online with a proctoring service. Students receive one attempt on each exam.

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**Grading Scale**
The following grading scale is used to evaluate all course requirements and determine your final grade:

<table>
<thead>
<tr>
<th>Grade</th>
<th>Percentage</th>
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</thead>
<tbody>
<tr>
<td>A</td>
<td>93–100%</td>
</tr>
<tr>
<td>B</td>
<td>83–87.9%</td>
</tr>
<tr>
<td>C</td>
<td>70–77.9%</td>
</tr>
<tr>
<td>D</td>
<td>60–69.9%</td>
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</tbody>
</table>
Pass/Fail Option

Students who enroll in an Independent Learning (IL) course under the pass/fail option will receive a final grade of S in place of a final grade equivalent to an A, AB, B, BC, or C and a final grade of U in place of a final grade equivalent to a D or F.