The University of South Dakota
Summer 2017
BADM 321: Business Statistics II
Online

Instructor: Mandie Weinandt, M.B.A.  
E-mail: Mandie.Weinandt@usd.edu  
Office hours: Thursday 5:30-6:30pm CT online  
Office: Beacom Hall 216  
Office Phone: (605) 677-5690  
Class Website: http://d2l.sdbor.edu/

Course Catalog Description
Business Statistics II focuses on statistical inference and forecasting. Topics, with business applications, include hypothesis testing, analysis of variance, correlation, simple linear and multiple regression and time series analysis. Utilization of statistical software is emphasized.

Prerequisites:
Business Statistics—BADM 220

Text
The required text for this class is Statistics for Business and Economics (11th edition or revised 11th edition) by David R. Anderson, Dennis J. Sweeney & Thomas A. Williams (South-Western Cengage Learning, 2011) ISBN: 0-324-78325-6 or 0-538-48164-1. This text is the same text used in BADM 220, Business Statistics. The online access code is not needed.

Attendance Policy
While this class is delivered asynchronously online, it is expected that students have watched all online lectures. Office hours will be held live via Blackboard Collaborate from 5:30-6:30pm central time. At the conclusion of office hours, any discussions held will be posted online for review later. If you are not going to watch lectures and office hours, you should not expect to do well in the course just as you would not expect to do well if you skipped class in a face-to-face environment.

Student Expectations
Students are expected to be familiar with the policies and expectations of the class as outlined in the syllabus, course assignment schedule, and those in the Online Student Handbook. The online student handbook outlines technical and netiquette requirements as well. Weekly requirements for the course can be found in the course assignment schedule, the weekly checklist in the news feed, and due dates in dropboxes and quizzes where relevant. The South Dakota Board of Regents defines a credit hour as one hour of classroom or direct faculty instruction and two hours of out-of-class student work. You should expect to spend around nine hours per week for a three credit hour class. Students are also expected to ask for assistance as needed to ensure understanding of the course material.

Instructor Expectations
The instructor will strive to ensure students are supported during the learning process and will provide all students with the same opportunity for success and learning in this course. The
instructor will respond to emails within 24 hours during the week and 48 hours on weekends and will work to ensure student understanding as questions arise. Additionally, the instructor will abide by the policies set forth by the South Dakota Board of Regents and University of South Dakota.

**Learning Objectives and Related Assessment**

<table>
<thead>
<tr>
<th>Objective</th>
<th>Assessment</th>
</tr>
</thead>
<tbody>
<tr>
<td>Develop an understanding of sampling and sampling distributions and their application to a business environment.</td>
<td>Week 2 Homework, Week 5 Quiz, Exam 1</td>
</tr>
<tr>
<td>Use estimation to determine confidence intervals from a sample and estimate an appropriate sample size.</td>
<td>Week 3 Homework, Week 5 Quiz, Exam 1</td>
</tr>
<tr>
<td>Develop, use, and apply the concept of hypothesis testing with both one and two-tailed tests for single populations</td>
<td>Week 4 Homework, Week 5 Quiz, Exam 1</td>
</tr>
<tr>
<td>Develop, use, and apply the concept of Interval estimation and hypothesis testing with both one and two-tailed tests for two populations</td>
<td>Week 7 Homework, Week 10 Quiz, Exam 2</td>
</tr>
<tr>
<td>Utilize tests of independence and practice their application to business scenarios.</td>
<td>Week 7 Homework, Week 10 Quiz, Exam 2</td>
</tr>
<tr>
<td>Estimate simple linear and multiple regression equations using the least squares method and use statistical tools to determine the validity of the model.</td>
<td>Week 8, 12 and 13 Homework, Week 10 and 15 Quizzes, Project, Final Exam</td>
</tr>
<tr>
<td>Apply time series methods to forecasting and practice their applications to business settings.</td>
<td>Week 14 Homework, Week 15 Quiz, Project, Final Exam</td>
</tr>
<tr>
<td>Solve business-related statistical problems using Microsoft Excel.</td>
<td>Week 1 Review, Movie Case Study, Week 11, 12, and 13 Homework, Project, Final Exam</td>
</tr>
</tbody>
</table>

**Grades, Exams, Quizzes, and Homework**

Your final course grade will be determined using the following distribution:

- Exam 1: 30%
- Exam 2: 30%
- Homework and Quizzes: 35%
- Project: 5%

Exams will be given in paper format during the weeks specified in the course outline. Students will need to take the exam at a designated testing site or find a proctor. Visit the Off-Campus and Distance Learning site for more information regarding testing centers and proctored exams. Make-up exams will be given on an emergency basis only. The final exam must be taken during
finals week (July 31-August 6). Since proctors will have to email, fax, or mail some exams to me, this may delay grading. Exam grades will be provided within one week of exam receipt. Feedback on exams will be returned to students once all exams are received.

Homework and quizzes are an important component of this class. Homework must be submitted to the D2L drop-box and will be given full credit as long as it is complete, turned in on time, with all work shown. Office hours are a good medium for obtaining tips and practice on homework completion. A 10% deduction will be applied for each day a homework assignment is late except the Monday of an exam week. An answer key will be made available to the entire class regardless of completion by the Monday of exam week; therefore, late homework will not be accepted after this point. An answer key will be made available to those who have completed their homework within 72 hours after homework is due with the dropbox feedback and to the entire class when credit for the assignment is no longer possible so students can compare work and answers. Feedback will be provided in the D2L Dropbox if full credit is not granted for the assignment. It is expected that students will take this feedback to improve their understanding of the material as exam problems will resemble homework problems.

Quizzes will be administered through the “Quizzes” link in D2L. Quizzes will be open-book, open-note, and contain 40 multiple choice questions. Use of the notes and textbook is strongly recommended. Late quizzes will not be accepted. Quiz grades will be made available as soon as the quiz is completed and answers will be available within 48 hours of the completion of the quiz.

There will be one group project requiring data analysis and a brief written report from each group of 1-3 people. Details and expectations about projects will be given in D2L after the second exam. During the week of the project, there will be no office hours during the regularly scheduled time. Students must schedule a time to meet with the instructor to explain their project idea and ask any questions they have between 7/10 and 7/28.

There is an “Answered Questions” grade item for which you all currently have full credit. While I encourage and welcome questions to give you a better understanding of the concepts we will cover in this course, I prefer not to be asked questions which have already been answered in the syllabus or course assignment schedule (i.e. due dates, late homework policies, etc.). Any question asked which has already been answered will result in a 1 point deduction from this score.

Extra credit opportunities will be available periodically throughout the semester. These opportunities may include quizzes, bonus homework, extra questions or problems on exams, etc. Make-ups will not be given for extra credit opportunities.

Grades will be based on no more than the percentage of points earned on the following scale:

- >90% = A
- 80-89.9% = B
- 70-79.9% = C
- 60-69.9% = D
- < 60% = F

On all assignments, academic honesty is expected and dishonesty will not be tolerated, in accordance with School of Business policies. If you have concerns about what constitutes ethical behavior for any aspect of this course, please ask.
**Beacom School of Business Policy on Plagiarism:**
Plagiarism is defined as using the words and/or ideas of another representing them to be your own, without proper credit to the author or source. Whether intentional or unintentional, plagiarism will result, at a minimum, in a grade of zero for that assignment. Since it is impossible to evaluate a plagiarized assignment, no credit can be given. However, at the discretion of the instructor, a student may be allowed to rewrite and resubmit the assignment for credit.

**Beacom School of Business Undergraduate Exit Exam (USD Business Majors Only)**
The material presented in this course is part of the common body of knowledge for this discipline. Mastering the information presented in this course lays the foundation for your future success as a knowledgeable, well-rounded business professional. The course is designed to encourage you to commit this valuable information to your long-term memory. In addition to demonstrating mastery of this information throughout the course, you will also be required to demonstrate your retention of this critical common body of knowledge by achieving a satisfactory score on the Beacom School of Business’s exit exam which is part of BADM 482 (Business Policy and Strategy). Achieving a satisfactory score on the exit exam is a graduation requirement.

**University Policy for a Dishonest Assignment:**
No credit can be given for a dishonest assignment. At the discretion of the instructor, a student caught engaging in any form of academic dishonesty may be:
- Given a zero for that assignment.
- Allowed to rewrite and resubmit the assignment for credit.
- Assigned a reduced grade for the course.
- Dropped from the course.
- Failed in the course.

[USD Academic Misconduct Link](#)

**Additional Policy for a Dishonest Assignment:**
Additionally, any student caught engaging in any form of academic dishonesty will not be eligible for any form of extra credit including extra credit already completed and will not be eligible for any adjustment to the grading scale posted in the syllabus.

**Student Code of Ethics**
Students enrolled at the Beacom School of Business are expected to maintain the highest standards of integrity and ethical principles and to adhere to the [Student Code of Ethics](#) developed and approved by Beacom School of Business students. This Code provides a frame of reference for the behavior of Beacom School of Business students in their personal, academic, and professional activities.

**Statement on Freedom in Learning**
Under Board of Regents and University policy student academic performance may be evaluated solely on an academic basis, not on opinions or conduct in matters unrelated to academic standards. Students should be free to take reasoned exception to the data or views offered in any
course of study and to reserve judgment about matters of opinion, but they are responsible for learning the content of any course of study for which they are enrolled. Students who believe that an academic evaluation reflects prejudiced or capricious consideration of student opinion or conduct unrelated to academic standards should contact the dean of the college that offers the class to initiate a review of the evaluation.

**Mission Statement: Beacom School of Business at the University of South Dakota**

We are a community of scholars and practitioners committed to superior undergraduate and graduate business programs accredited by AACSB International. We emphasize excellence in teaching, promote intellectual exchange and development, and advocate continuous learning reflecting a dynamic global environment. Our services deliver value to our students, the university, business disciplines, and society.

**Inclusive Excellence: Beacom School of Business at the University of South Dakota**

The Beacom School of Business is committed to USD’s Inclusive Excellence initiatives. We are committed to cultivating an environment of Inclusive Excellence at all levels of the school. We are committed to graduating globally and culturally aware business students who are equipped with the tools to embrace and practice inclusiveness.

**Additional Information**

The last day to drop a class with a full refund and without having the class recorded on your academic record is Monday, May 22, 2017. The last day to drop a class with a grade of “W” is Wednesday, July 12, 2017. Courses may not be dropped after July 12, 2017.

The instructor of a course may drop a student for non-attendance or non-participation provided the student is in violation of the official attendance policy or participation policy of the course. Instructor initiated drops are at the instructor's option, but they must be submitted to the Registrar's Office by July 12th and be approved by the dean of the college or school in which the course is offered. The student is notified by the Registrar's Office that he/she has been dropped from the course. The grade assigned is in accord with the drop policy for student initiated drops.

**Disability Services**

If you have a disability for which you are or may be requesting an accommodation, you are encouraged to contact both your instructor and the Director of the Office of Disability Services (Service Center 119; 605-677-6389 | disabilityservices@usd.edu) as early as possible in the semester.
**Class Schedule and Reading Assignments**
The following is a brief listing of topics, reading assignments, and cases. Please consult the Course Assignment Schedule for more detailed information on assignments, due dates, and times.

<table>
<thead>
<tr>
<th>Dates</th>
<th>Topics</th>
<th>Chapters</th>
</tr>
</thead>
<tbody>
<tr>
<td>May 15-May 21</td>
<td>Review: Chapter 6 and Excel Sampling and Sampling Distributions</td>
<td>6 and Excel</td>
</tr>
<tr>
<td>May 22-May 28</td>
<td>Interval Estimation</td>
<td>7</td>
</tr>
<tr>
<td>May 29-June 4</td>
<td>Hypothesis Testing</td>
<td>8</td>
</tr>
<tr>
<td>June 5-June 11</td>
<td>Inferences about 2 Populations</td>
<td>9</td>
</tr>
<tr>
<td>June 12-June 18</td>
<td>Exam 1</td>
<td>7, 8, 9 and 10</td>
</tr>
<tr>
<td>June 19-June 25</td>
<td>Tests of Independence</td>
<td>12</td>
</tr>
<tr>
<td>June 26-July 2</td>
<td>Simple Linear Regression</td>
<td>14</td>
</tr>
<tr>
<td>July 3-July 9</td>
<td>Multiple Regression Analysis</td>
<td>15</td>
</tr>
<tr>
<td>July 10-July 16</td>
<td>Forecasting and Time Series</td>
<td>18</td>
</tr>
<tr>
<td>July 17-July 23</td>
<td>Project</td>
<td>14, 15, and 18</td>
</tr>
<tr>
<td>July 24-July 30</td>
<td>Final Exam</td>
<td>12, 14, 15, and 18</td>
</tr>
</tbody>
</table>