SYLLABUS

Stat 201-70 Business Statistics II

Department of Mathematical Sciences  Spring 2016

READ THIS SYLLABUS CAREFULLY. YOU ARE RESPONSIBLE FOR KNOWING THIS INFORMATION!

Prerequisite: STAT 200 or equivalent (C- or higher).

Course Description: Application of statistical methods used for a description and analysis of business problems. The development of analytical skills is enhanced by use of one of the widely available software packages (Excel). Topics include continuation of hypothesis testing, multiple regression and correlation analysis, residual analysis, variable selection techniques, analysis of variance and design of experiments, goodness of fit, and tests of independence. No credit given to students with credit for STAT 216, 416 or 453.

Instructor: Stewart Rosenberg

Office Hours: By appointment; also, 2:50 – 4:20 before each class, in MS 211

Email: rosenbergstb@ccsu.edu

To contact me outside of classes and my office hours, send me an email. Make sure that your email message is sent from your ccsu.edu email account.


Class Meeting Times: T 4:30 pm – 7:10 pm, MS 101

Course Requirements:

- Attend and participate in class; complete homework assignments; take quizzes and tests, as scheduled. For this course, you are expected to put in at least 6 hours of work outside of class each week. *If you are unable to make this kind of commitment, you should drop this course now!* 

  - All even-numbered problems in the chapters covered are assigned as homework. Doing the problems is essential for understanding the methodology and passing the tests.
Technology: Excel will be used for computer projects. Course materials will be uploaded to Blackboard. You are required to know materials and messages uploaded to Blackboard, whether they are announced in class or not. You must have a hand calculator for the tests.

Examinations:

- Three exams. Dates will be announced at least one week ahead of time. Dates on the syllabus are approximate. Make-up examinations may be allowed only for medical reasons or other legitimate extenuating circumstances beyond the student’s control. Documentation may be required. Under no circumstances will a make-up exam be given after the next class meeting.
  - Final exam. It covers the entire course and will be given as scheduled by the University. There is no make-up for the final exam.
- There will be occasional quizzes/projects given in class or assigned as take-home problems. No make-up quizzes will be allowed.

Final Grade: Based on quizzes/projects (all of them combined count as no more than 100 points), three exams (100 points each), and the Final Exam (150 points). An incomplete will be given only to students with a passing grade who miss the Final Exam for reasons beyond their control (documentation required).

Cell phones and other communication or personal electronic devices: Must be turned off at all times during class.

University Policies:

1. You must take the final examination at the time specified in the course selection book.
2. Please contact me privately to discuss your specific needs if you believe you need course accommodations based on the impact of a disability, medical condition, or if you have emergency medical information to share.
   I will need a copy of the accommodation letter from Student Disability Services in order to arrange your class accommodations. Contact Student Disability Services, Willard Hall, 101-04, if you are not already registered with them. Student Disability Services maintains the confidential documentation of your disability and assists you in coordinating reasonable accommodations with your faculty.
3. In the event of a weather emergency which requires curtailment or cancellation of classes, listen to WTIC (1080 AM) or call (860) 832-3333 for the “general snow message.”
4. The last day to withdraw from a course is April 18. Approvals for withdrawal are not required; however, it is strongly recommended that students consult with their academic advisors prior to deciding to withdraw. Cessation of attendance, notice to the instructor, or telephone calls to the Enrollment Center are not considered official notice of a student’s intention to drop the course. After April 13 withdrawals are allowed only under extenuating circumstances and require approvals of the course instructor and department chair.
   Poor academic performance is not considered an extenuating circumstance.
5. You are responsible for understanding and abiding by the University’s policy on academic integrity. Information on the policy may be found at http://www.ccsu.edu/AcademicIntegrity/. This policy is rigorously enforced by the Department of Mathematical Sciences.
Resources Available:
1. If you need help, take advantage of your instructor's office hours. Do not wait until just before the first test to do so.
2. The Learning Center is located in Willard Hall, Room 101. Free tutoring is available. A schedule for hours the Center is open will be posted soon after the beginning of the semester.
3. Form a study group with other students in your section. Explaining solutions to homework problems to each other is a good way to learn.
4. A list of private tutors for hire is available in the math department office, Room 107 Marcus White, 832-2835.

Evaluation
Minimum averages have been established for each of these grades:
A 93%  A- 90%  B+ 87%  B 83%  B- 80%  C+ 77%  C 73%  C- 70%  D+ 67%  D 63%  D- 60%

The tentative course schedule is given below.
Please note that Readings for each topic include the textbook chapter, your class notes as well as slides and Excel examples presented in the class. The slides and Excel files will be uploaded to Blackboard Learn, as far back as Chapter 1.

<table>
<thead>
<tr>
<th>Week #</th>
<th>Topics</th>
<th>Readings</th>
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<tbody>
<tr>
<td>2</td>
<td>Review 2 &amp; 3 of STAT 200. Confidence Intervals. Hypothesis Testing</td>
<td>Chapters 8, 9</td>
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<td>3</td>
<td>Statistical Inference About Means and Proportions With Two Populations</td>
<td>Chapter 10</td>
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<tr>
<td>4</td>
<td>Statistical Inference About Means and Proportions With Two Populations</td>
<td>Chapter 10</td>
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<tr>
<td>5</td>
<td>Inferences about Population Variances</td>
<td>Chapter 11</td>
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<td>6</td>
<td>Preparation to Exam 1</td>
<td>Exam 1 (Chapters 9, 10 &amp; 11)</td>
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<td>7</td>
<td>Test of Goodness of Fit and Independence.</td>
<td>Chapter 12</td>
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<td>8</td>
<td>Test of Goodness of Fit and Independence. Simple Linear Regression</td>
<td>Chapter 12, 14</td>
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<tr>
<td>9</td>
<td>Simple Linear Regression</td>
<td>Chapter 14</td>
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<td>Week</td>
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<td>Topic</td>
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<tr>
<td>10</td>
<td>3/29/16</td>
<td>Simple Linear Regression</td>
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<td>Preparation to Exam 2</td>
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<td>11</td>
<td>4/05/16</td>
<td>Multiple Regression</td>
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<tr>
<td>12</td>
<td>4/12/16</td>
<td>Multiple Regression.</td>
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<td>Analysis of Variance</td>
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<tr>
<td>13</td>
<td>4/19/16</td>
<td>Analysis of Variance.</td>
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<td>Preparation to Exam 3</td>
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<td>Exam 3 (Chapters 15 &amp; 13)</td>
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<td>14</td>
<td>4/26/16</td>
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<td>15</td>
<td>5/03/16</td>
<td>Preparation to Final Exam.</td>
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<td>16</td>
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<td>FINAL EXAMINATION WEEK -- 7 - 13 May 2016</td>
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**SPRING BREAK MARCH 21 – MARCH 27 -- NO CLASS ON MARCH 22**

This is a working document and is not cast in stone. It is subject to change and/or modification at the discretion of the Professor, either based on a need to spend more time on a given chapter, and / or other recognized needs. Even though we meet only once a week, please note that there are multiple items listed on some weeks, such as on exam weeks, which are meant to indicate that we may use part of a class for an exam and part of the class for learning new material or reviewing past material.

Weeks for examinations given above are approximate. We will make a final determination as the semester advances. Examinations will on average run for 75 minutes. Remember that we only meet once a week.

**POLICY ON EXAM AND QUIZ RETURN:** I have always returned examinations and quizzes the following week, when I answer all class questions and review solutions. I allow you to keep quizzes, for future study purposes. Examinations are passed back in the same class, after we review them, and answer any questions. You may take notes in your notebook of any problems or sections that you need to review for future examinations, as we go over the exams. If you are not present for the return of an exam or quiz, I will bring it the following class, for you to review. Or you may make an appointment to see me, or come to office hours. E-mail me, please. You need to e-mail me if for any reason you cannot receive and review your exams or quizzes within two weeks, as I will then recycle them. Be sure to contact me if you are not present to receive an exam or quiz back, within two weeks, to make arrangements for extenuating circumstances. This policy avoids students not following up for maximum benefit, and it avoids students waiting until weeks or months later to ask how they did on a quiz or test.

*Thank you in advance for your preparation for, and participation in, STAT 201!*