Course Instructor: Aditi Bhattacharyya, Ph.D.
Email: abhattachar@rider.edu

Class Information: Lecture: W 6:45 p.m. – 9:45 p.m., Memorial Hall, Room 306
Office Hours: W 5:45 p.m. – 6:45 p.m., Memorial Hall, Room 306

Course Description: This is the second of a two-course sequence of statistics courses required of all business majors. Students are expected to develop the ability of understanding and applying statistical concepts and techniques to business problems. Computer program Microsoft Excel will be used to analyze data sets. It is assumed that you have learned the topics covered in MSD 200 Statistical Methods I. The knowledge and skills you acquire in this course will also be needed in some of the courses you will take in the future, such as MSD 340 Production & Operations.

Course Outline:
- Review of Statistical Methods I Materials
- Inference Based on Two Samples: Confidence Intervals and Tests of Hypotheses: Ch 7
- Simple Linear Regression: Ch 10
- Multiple Regression and Model Building: Ch 11
- Design of Experiments and Analysis of Variance: Ch 8
- Categorical Data Analysis: Ch 9

The schedule is subject to change. You are responsible for following up all the announcements made during the lectures.

Teaching Approach: The instruction will consist of lectures, class discussions, and homework problems. Each topic will be introduced and example problems will be solved to demonstrate how the relevant method is applied. Homework problems will be assigned in lectures but will not be collected. However, you are expected to solve all homework problems; your learning and success in the course critically depends on regular study and solving a large number of problems.

Exams and Grading: There will be several quizzes, two midterm exams, and a final exam. They will count toward the course grade as follows.

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<tr>
<th>Component</th>
<th>Percentage</th>
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<tbody>
<tr>
<td>Quizzes</td>
<td>15%</td>
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<tr>
<td>Exam 1</td>
<td>25%</td>
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<td>Exam 2</td>
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<tr>
<td>Final Exam</td>
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<td>Attendance</td>
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There will be no make-up quiz. All quizzes and exams are closed book. You will need a scientific calculator on all quizzes and exams. You are not allowed to use a graphing or programmable calculator or your cell-phone as a calculator.
**Attendance:** Class attendance is required and contributes to your grade in this course. You’ll be considered absent from a class session if you are not in attendance when the class starts, or if you leave without permission before the class is dismissed.


**Code of conduct:** I expect you to maintain an effective learning environment during the lectures including, but not limited to:
- Coming to every class
- Not being late to the class
- Staying in class until the class is dismissed
- Refraining from talking to your classmates during lectures
- Turning off your pager or cell phone before the class starts

**E-mail policy:** On November 15, 2005 The University Academic Policy Committee approved the following statement about e-mail as the Official Means of Communication with Students:

Your Rider email account is your email address for all official email communications from the University. You are expected to check your Rider email account on a frequent and consistent basis in order to stay current with university-related communications. Any email from me about this course will only be sent to your official Rider email address. Any communication from you to me must come from your Rider email address.

**Remarks:**
- Learning statistics, even at the introductory level, requires a lot of hard work, including taking notes in class and studying them later, studying the textbook, and solving a lot of problems.
- Focus on UNDERSTANDING rather than MEMORIZING the course materials.
- Read the relevant chapters of the text, including "Where We've Been" and "Where We're Going", before the topics of that chapter are discussed in class. The objective is to get acquainted with the subject.
- Come to class regularly and don't hesitate to ask questions. There is no such thing as a "stupid question". Your instructor doesn't mind to be interrupted with questions.
- Study the subject covered in class as soon as possible using the text and/or your notes. Solve the problems we have solved in class again and go over the examples in the book. When you feel comfortable with the subject matter, do the homework problems. The purpose of homework problems is to enhance students’ understanding of the basic concepts and methodologies learnt in class. If you have difficulty with the homework problems review the section and/or your notes. If you still experience difficulty contact your instructor as soon as possible.
- All the topics we cover in this course require the knowledge of topics covered earlier. Hence, one thing you cannot afford to do in this course is to fall behind.