STAT 8010, Statistical Methods I  
Section 400, Spring 2018

Instructor: Dr. Brook Russell  
Office: O-220 Martin Hall  
Phone: (864) 656-4571  
E-Mail: brookr@clemson.edu  
Mandatory Online Office Hours: TBA  
Supplemental Office Hours: by appointment

Required Materials:
An Introduction to Statistical Methods and Data Analysis (6th ed); Ott and Longnecker, 2010.  
Access to Adobe Connect

Evaluation:
Attendance (Mandatory Online Office Hours): 5%  
Quizzes: 15%  
Midterm 1: 25%  
Midterm 2: 25%  
Final Exam: 30%  

A: 90-100%  B: 80-90%  C: 70-80%  F: <70%

Course Objectives:
At the end of this course, the student will be able to:
1. Summarize and interpret research data.  
2. Draw appropriate conclusions and inferences from data.  
3. Apply statistical techniques and knowledge appropriately.  
4. Select and implement several basic experimental designs.

Attendance:
College work proceeds at such a pace that regular attendance is necessary for each student to obtain maximum benefits for instruction. Regular attendance at all mandatory online office hours is a student obligation, and each student is also responsible for all information in the prerecorded online lectures (accessed via Canvas). Should the professor be late for a class meeting, students are required to wait fifteen minutes before leaving.

Exam Information:
- Midterm 1 will be available to be taken from 2/12 – 2/16.  
- Midterm 2 will be available to be taken from 3/26 – 3/30.  
- The Final Exam will be available to be taken from 4/30 – 5/4.

Each exam will have two parts: a proctored online component and a take-home component. You are responsible for scheduling your exams with a proctor who is deemed to be acceptable to the Department of Mathematical Sciences. Once you begin each proctored online exam, you will have a pre-specified amount of time to complete it. You will work on the take-home component of each exam on your own, and must submit it in Canvas as a pdf by the due date.

Key Dates:
Jan 17: Last day to register or add a class or declare audit  
Jan 24: Last day to drop a class or withdraw from the University without a W grade  
Mar 16: Last day to drop a class or withdraw from the University without final grades
**Mandatory Online Office Hours:**
In addition to watching all prerecorded lectures, students will be required to attend all mandatory online office hour sessions. During the first week of class, students will be asked for feedback regarding the meeting time. Further information about the online office hours, including how to log on, will be provided during the first week of class.

**Academic Integrity Statement:**
“As members of the Clemson University community, we have inherited Thomas Green Clemson's vision of this institution as a ‘high seminary of learning.’ Fundamental to this vision is a mutual commitment to truthfulness, honor, and responsibility, without which we cannot earn the trust and respect of others. Furthermore, we recognize that academic dishonesty detracts from the value of a Clemson degree. Therefore, we shall not tolerate lying, cheating, or stealing in any form. In instances where academic standards may have been compromised, Clemson University has a responsibility to respond appropriately to charges of violations of academic integrity.”

Please refer to the current Graduate School Policy Handbook for the graduate academic integrity policy.

**Disability Access Statement:**
It is university policy to provide, on a flexible and individualized basis, reasonable accommodations to students who have disabilities. Students with disabilities requesting accommodations should make an appointment with Disability Services (656-6848), to discuss specific needs within the first month of classes. Students should present a Faculty Accommodation Letter from Student Disability Services when they meet with instructors. Accommodations are not retroactive and new Faculty Accommodation Letters must be presented each semester.

**Title IX Statement:**
Clemson University is committed to a policy of equal opportunity for all persons and does not discriminate on the basis of race, color, religion, sex, sexual orientation, gender, pregnancy, national origin, age, disability, veteran’s status, genetic information or protected activity (e.g., opposition to prohibited discrimination or participation in any complaint process, etc.) in employment, educational programs and activities, admissions and financial aid. This includes a prohibition against sexual harassment and sexual violence as mandated by Title IX of the Education Amendments of 1972. The policy is located at http://www.clemson.edu/campus-life/campus-services/access/non-discrimination-policy.html. Jerry Knighton serves as Clemson’s Title IX Coordinator and he may be reached at knightl@clemson.edu or 656-3181.

**Course Expectations:**
Students are expected to participate in all scheduled online class meetings via Adobe Connect, and are expected to watch all prerecorded lectures in Canvas. Students are expected to complete all coursework independently (unless explicitly directed by the instructor) and coursework must be submitted by the deadlines outlined in the course calendar. Students are responsible for locating an acceptable exam proctor and are responsible for scheduling exam appointments during the announced exam dates. Additionally, students are responsible for any fees associated with exam appointments.
Tentative Course Calendar:

<table>
<thead>
<tr>
<th>Week Number</th>
<th>Dates</th>
<th>Topic</th>
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<tbody>
<tr>
<td>1</td>
<td>1/10 – 1/12</td>
<td>Descriptive Statistics Part I</td>
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<tr>
<td>2</td>
<td>1/16 – 1/19</td>
<td>Descriptive Statistics Part II</td>
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<tr>
<td>3</td>
<td>1/22 – 1/26</td>
<td>Intro to Probability Part I</td>
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<td>4</td>
<td>1/29 – 2/2</td>
<td>Intro to Probability Part II</td>
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<td>5</td>
<td>2/5 – 2/9</td>
<td>Normal Probability</td>
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<tr>
<td>6</td>
<td>2/12 – 2/16</td>
<td>Midterm I</td>
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<tr>
<td>7</td>
<td>2/19 – 2/23</td>
<td>Inference on One Mean</td>
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<td>8</td>
<td>2/26 – 3/2</td>
<td>Two Sample Inference</td>
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<td>9</td>
<td>3/5 – 3/9</td>
<td>One Way ANOVA</td>
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<tr>
<td>10</td>
<td>3/12 – 3/16</td>
<td>Midterm II</td>
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<tr>
<td>11</td>
<td>3/26 – 3/30</td>
<td>Multiple Comparisons</td>
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<td>12</td>
<td>4/2 – 4/6</td>
<td>Randomized Complete Block Designs</td>
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<td>13</td>
<td>4/9 – 4/13</td>
<td>Inference on Proportions</td>
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<td>14</td>
<td>4/16 – 4/20</td>
<td>Contingency Table Analysis</td>
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<td>15</td>
<td>4/23 – 4/27</td>
<td>Correlation and SLR</td>
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<td>16</td>
<td>4/30 – 5/4</td>
<td>Final Exam</td>
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