**Math 115 (Honors Section): Introduction to Statistics, Fall 2019**

Instructor: Dr. Xin (Sheen) Dang  
Office: Hume Hall 315  
Office hours: M W 10:00-11:30 am or by appointment  
Email: xdang@olemiss.edu (preferred contact)  
Phone: (662) 915-7409 (office)

**COURSE INFORMATION:**  
Software: R (Open Source Statistics Software)  
Website: Course ID: dang10934 @ http://pearsonmylabandmastering.com  
Time/Place: M W F 8:00-8:50 am; Hume Hall 221

**DESCRIPTION:**  
Introduction to statistical concepts and techniques including descriptive statistics, random variables, probability distributions, sampling distributions, confidence intervals and hypothesis tests. Statistical software R will be taught and implemented for demonstration of statistical methods.

**LEARNING OBJECTIVES:**  
After completing this course, students enable to  
• Understand basic probability and statistics concepts;  
• Enhance critical statistical thinking;  
• Know which statistical method is appropriate given a typical problem;  
• Have familiarity with Statistical Software R.

**GRADE INFORMATION:**  
• Homework - Online assignments (total 175 points) will be given through the semester. Use Course ID: dang10934 to enroll http://pearsonmylabandmastering.com to do online homework.  
• R – R will be taught through worksheets. A small R project is assigned and counts for 25 points.  
• Tests – There are 4 tests during the semester each counting for 50 points. However, the lowest test can be dropped and hence the points earned from tests are 150 points.  
• Final exam is comprehensive and counting for 150 points.  
• The overall total points of the course are 500 points.

A 93%  A- 90%  B+ 87%  B 83%  B- 80%  C+ 77%  C  70%  D 60%  F  <60%

**VERY IMPORTANT:**  
1. If a test is missed for ANY reason, a grade of 0 will be given. There will be absolutely NO make up tests given for ANY reason.  
2. Any student who will miss one of the four tests because of an official University function must reschedule and take this test at a time BEFORE the test is scheduled to be given. NO OTHER rescheduling will be allowed.  
3. An "I" grade will not be given without the permission of the Department of Mathematics.
4. Every student must take the final exam at the time scheduled. The only exceptions are those students affected by # 2 above.

**ATTENDENCE POLICY:**
Honors courses are small classes, usually taught in seminar style with no more than fifteen students. They are reading, writing and discussion intensive. Student participation is therefore essential. In addition, the university commits extensive resources, especially in terms of faculty time, to these small classes. For these reasons, the Honors College has an attendance policy for all honors courses, both required and departmental. For this class, students are allowed three absences. Five points are deducted from the final points total for each absence above the limit. It is the student’s responsibility to make sure his/her attendance record is correct.

**TENTATIVE AGENDA:** Friday’s class is often used to learn R. If changes are made, you will get advance notification in class.

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<td>Week 2</td>
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<td>Test 1; Chapter 4: Sec 4.1-4.2</td>
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<td>Week 15</td>
<td>Review for final exam</td>
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<td>Dec 9, Monday@8:00am</td>
<td>Cover all chapters</td>
<td>Final Exam</td>
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