

## **Math 320      ELEMENTARY PROBABILITY AND STATISTICS I**

### **Instructor:**

J.D. Herdlick  
Cupples I, room 108C  
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Email: [jd@math.wustl.edu](mailto:jd@math.wustl.edu)  
Office Hours: Mon/Wed/Fri 8:00-9:00 am, and by appointment  
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### **Class:**

MWF 9:00 – 10:00 am  
January Hall, Room 110

### **Textbook:**

Elementary Statistics, 9<sup>th</sup> Edition; Johnson & Kuby

### **Description:**

An elementary introduction to probability theory and statistics. Discrete and continuous random variables, mean and variance hypothesis testing and confidence limits, nonparametric methods, student's analysis of variance, regression and contingency tables. Credit: 3 units.

### **Technology:**

Each student should have a graphing calculator. The TI-83, TI-83+, or TI-84 is the recommended calculator and the one that is used by the instructor and TA. You will often need the calculator in class for examples and in-class assignments. Occasionally, a portion of your homework assignment may take place on the internet. Also, the computer program *Excel* will be used on homework assignments during the course. This program is available on every PC and Mac in the Arts & Sciences computer lab and in the South 40 computer areas. *Excel* is a part of *Microsoft Office*, which is often preinstalled on new computers. If you want to install and use it on your personal computer, first check that it is not on your computer already. Otherwise, you can purchase a student copy of *Microsoft Office* for around \$100.

### **Attendance:**

Attendance is strongly encouraged, but will not be recorded. You will, however, be responsible for any material you miss. All class handouts will be available on my web page.

### **Class Expectations:**

Classes at Washington University begin 7 minutes after the listed starting time and end at the hour. You are expected to arrive on time, prepared. Being prepared means you are reading the sections before class and working on the homework problems. All cell phones and noise making devices should be turned off, or set to a silent mode.

### **Homework:**

There will be a homework assignment due every Monday, by 5:00 pm. Homework assignments can be printed from my homepage, and will be distributed in class on every Monday. Homework must be handed in either to me, or in the math department office in Cupples I, Room 100. The lowest homework score will be dropped, so your homework score will be based on all homework grades but one.

WARNING: Make a copy of your homework before you hand it in!!! It may not be returned before you need it, as you may want to refer to it for the next homework (or a test).

While working on your homework, the correct final answer should not be your only concern. To receive full credit, you will also need to present a neat, organized summary of the work involved to obtain the answer. Additionally, any Excel homework printouts should be formatted neatly.

### **Quizzes:**

On occasion, we will have small ten-minute quizzes in class. These will be open book and notes, and will be included in your homework grade.

### **Exams:**

There will be 4 exams. The exams will be given on the following dates:

Wednesday, February 8<sup>th</sup> (6:30 – 8:30 pm)

Wednesday, March 8<sup>th</sup> (6:30 – 8:30 pm)

Wednesday, April 5<sup>th</sup> (6:30 – 8:30 pm)

Thursday, May 4<sup>th</sup> (3:30 – 5:30 pm)

### **Grading:**

Your grade for the course will be based on your exam scores and homework. The 4 exams are 80% of your grade and the homework is 20%.

### **Scale:**

The final grading scale will be no more severe than:

90% - 100% A's

80% - 89.9% B's

70% - 79.9% C's

60% - 69.9% D's

below 60% No Credit