Probability and Statistics for Engineering and the Sciences, 8th Edition by Jay Devore

THINGS YOU SHOULD KNOW

- This course is facilitated through my web page, which can be found by visiting the following (or simply googling my name):
  http://web.as.uky.edu/statistics/users/dcluek2/
- You should check the web page often for announcements related to the class. Also, you should check the web page for links to relevant course materials (notes, homework assignments, etc.)
- Read the book and do your assignments on time. This class is tightly structured, which is a good thing but you won’t profit from the structure if you don’t stay prepared.

OFFICIAL COURSE DESCRIPTION

The role of chance in experimental outcomes. Simple discrete and continuous probability distributions; combinatorics; moments and expectations; normal and binomial distributions; computer simulation and simple Monte Carlo methods. Descriptive statistics, charts, and graphs, and elements of statistical inference using interactive statistical packages (e.g., SCSS and/or MINITAB).

Overview

This course is an overview of probability and statistics. We will discuss probability theory, random variables, discrete and continuous random variables, the central limit theorem, confidence intervals, and hypothesis testing. As time permits, we may discuss graphical methods and Markov Chains.

ACCOMMODATIONS

If you have a documented disability that requires academic accommodations, please inform me of this within the first two weeks of class so that I can be prepared to make these accommodations for you. In order to receive accommodations in this course, you must provide me with a Letter of Accommodation from the Disability Resource Center
www.uky.edu/TLC/grants/uk_ed/services/drc.html.

ACADEMIC HONESTY

I will not tolerate cheating in any form. The Department of Statistics, the College of Arts and Sciences, and the University of Kentucky place a premium on academic honesty. Anyone caught cheating will be punished to the fullest extent allowed. If you would like to see what you could be facing please refer to the University of Kentucky Student Rights and Responsibilities document www.uky.edu/StudentAffairs/Code/part2.html OR don’t cheat and both our lives will be easier. 😊
**GRADING**

<table>
<thead>
<tr>
<th>Student getting a course percent of ...</th>
<th>Will get no lower than a/an...</th>
</tr>
</thead>
<tbody>
<tr>
<td>90-100</td>
<td>A</td>
</tr>
<tr>
<td>80-89</td>
<td>B</td>
</tr>
<tr>
<td>70-79</td>
<td>C</td>
</tr>
<tr>
<td>60-69</td>
<td>D</td>
</tr>
</tbody>
</table>

**Grade Breakdown**

<table>
<thead>
<tr>
<th>Homework</th>
<th>15%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Quizzes</td>
<td>15%</td>
</tr>
<tr>
<td>First Midterm</td>
<td>20%</td>
</tr>
<tr>
<td>Second Midterm</td>
<td>20%</td>
</tr>
<tr>
<td>Comprehensive Final</td>
<td>30%</td>
</tr>
</tbody>
</table>

**HOMEWORK**
These problems can be found on the class web page. Grading will be based primarily on the method of solution, with numerical correctness playing an important but secondary role. A correct answer with no method of solution will receive NO credit, whereas an incorrect but clearly derived answer will receive partial credit. You have until the end of lecture on the due date to turn in your homework.

**QUIZZES**
A number of short quizzes will be given during the semester. These may be announced or unannounced.

**EXAMS**
There will be two midterm exams, each being worth 20% of your final grade. There will also be a comprehensive final that will be worth 30% of your final grade. Prior to the exam you will have access to the formula sheet and table(s) that will be provided with your exam. Tentative dates for the exams are:
- Exam 1 Tuesday, October 4th
- Exam 2 Thursday, November 10th
- Final Exam Friday, December 16th @ 10:30 AM

**ATTENDANCE POLICY**
Whether you attend class or not is completely your own decision, although it is advised that you attend regularly. It is the students' responsibility to inform me ahead of time of any known absences (religious holidays, etc). If something unforeseen comes up and you must miss class you should inform me ASAP. Students will only be allowed to make up missed coursework if they have a University approved excused absence. This means you will receive a zero (0) for any material (homework, quiz, exam, etc) missed without a University approved absence for the specific date in question.

**UNFORESEEN CONTINGENCIES**
This syllabus is tentative, if an unforeseen contingency requires additional course policies, or if I must correct a genuine error in the statement of course policies, you will be notified in class and on my website.