MISSOURI S&T

Formerly University of Missouri–Rolla

DEPARTMENT of MATHEMATICS and STATISTICS

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Statistics 3115 "Engineering Statistics", Spring 2024.

Lecture: Monday, Wednesday, and Friday in CS-222 from 11 to 11:50 in the morning (Section 104) and from noon to 12:50 in the afternoon (Section 101). The website for this class is

http://web.mst.edu/~bohner/stat3115-24/stat3115.html.

Office Hours: MWF with zoom from 2 to 2:50 in the afternoon. Also by appointment. Appointments may be scheduled in person, by phone, or via e-mail.

Text: "Probability and Statistics for Engineering and the Sciences" by Jay L. Devore (9th edition), Chapters 1–5, 7, Sections 8.1–8.4, 9.1–9.2, 9.4–9.5, 12.1–12.2. Powerpoint slides used in class are posted on the website.

Learning Outcomes: To understand the concepts of probability, probability distributions, discrete and continuous random variables, joint probability distributions, random samples, confidence intervals, significance tests, and regression.

Attendance and Drop Policy: With three absences from class, you will receive an academic alert. With five absences, you will be dropped from the class.

Homework: There will be 15 homework assignments, done in Cengage, due each Monday at 11 in the morning.

Hour Exams: There will be three exams during class, done in Cengage, on February 7, March 18, and April 26.

Final Exam: The final exam is comprehensive and will be on Tuesday, May 7, from 7:30 to 9:30 in the morning (Section 101) and on Thursday, May 9, from 7:30 to 9:30 in the morning (Section 104).

Grading Policy: All graded work is done in Cengage. Each of the 15 weekly homework assignments is worth 10 points and the best ten count towards the grade. Each of the three hour exams and the final exam is 100 points. Hence the emphasis on the final amount of points is weighted as follows:

Homework	Hour Exams	Final
20%	60%	20%

Altogether 500 points are available. The scores may be found on Canvas. If p is the final percentage, the final grade will be determined according to the following table:

F	D	C	B	A
$p < 60$	$60 \leq p < 70$	$70 \leq p < 80$	$80 \leq p < 90$	$p \geq 90$

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