

STAT3355-501 COURSE OUTLINE

Instructor: Dan A. Watson, Lecturer

Office: EC 3.106

Office Hours: Tuesdays and Thursdays, 7:30 - 8:30 pm, else by appointment

Phone: 972 431-4220

E-Mail: Dan.Watson@utdallas.edu

Lectures: Tuesdays and Thursdays, 8:30 - 9:45 pm, CB 1.124

Text: Statistics – The Exploration and Analysis of Data, 5th Ed., Jay Devore & Roxy Peck

Grade: There will be two mid-term exams and a final exam. The mid-term exams will be over the material just covered and the final will be comprehensive, with emphasis on the material covered after the second mid-term. The mid-terms will be closed book, although you will be allowed an 8½ by 11-inch study sheet for formulas and notes, and the final exam will be comprehensive and open book. Individuals with conflicts due to travel may take exams before the scheduled date, but not after. Missed exams will be assigned a grade of 0 if the absence is unexcused. Otherwise, the final exam grade will serve as that test grade. You are responsible for the material covered during the lectures, some of which may not be in the textbook. The final course grade will be based upon a weighted average of the mid-term exams, Final exam, and 3 projects due on the date of each exam. The weights are:

Projects	5%
Exam 1	30%
Exam 2	30%
Final Exam	35%

Grades: A = 90 -100 B = 80 - 89 C = 70 - 79 D = 60 - 69 F < 60

Course Modules

1 Data Collection, Description, and Analysis	Chapters 1 - 5
2 Probability, Random Variables, and Distributions	Chapters 6 – 8, Appendix A
3 Introduction to Inference	Chapters 9-12

Class Schedule

<u>Date</u>	<u>Topic</u>
Jan. 10, 12, 17, 19, 24, 26, and 31, Feb. 2, 7, 9, and 14	Module 1
Feb. 16	<u>Exam over Module 1</u>
Feb. 21, 23 and 28, Mar. 2, 14, 16, 21, 23, and 28	Module 2
Mar 30	<u>Exam over Module 2</u>
Apr. 4, 6, 11, 13, 18, and 20	Module 3
April 27	Final Exam (8:00 pm)

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The class schedule is tentative and the material that will be covered by the mid-term exams will depend upon our progress.

Practice Problems

Chapter 2

2.4, 2.6, 2.31, 2.32, 2.38

Chapter 3

3.3, 3.7, 3.26, 3.30, 3.37,3.39, 3.45, 3.47, 3.51, 3.57

Chapter 4

4.5, 4.11, 4.12, 4.18, 4.21, 4.29, 4.31, 4.33, 4.34, 4.38, 4.40

Chapter 5

5.6, 5.9, 5.12, 5.13, 5.19, 5.20, 5.24, 5.32, 5.36, 5.41, 5.43, 5.47, 5.48, 5.49, 5.52

Chapter 6

6.10, 6.12, 6.13, 6.18, 6.20, 6.24, A.3, A.4, A.7, A.8

Chapter 7

7.2, 7.7, 7.13, 7.17, 7.21, 7.23, 7.24, 7.28, 7.35, 7.37

Chapter 8

8.3, 8.9, 8.20, 8.21, 8.31, 8.35

Chapter 9

9.2, 9.10, 9.12, 9.14, 9.24, 9.34, 9.38, 9.41, 9.47, 9.50, 9.54