BU224-10   Applied Statistics

Time:	Saturday, 12:30 p.m. - 4:40 p.m.
Location:	Schofield Barracks Education Center
Instructor:	Alvin Nakamura, MA Research Statistician, Hawaii Department of Health

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Textbook:	*Statistics for Business and Financial Economics* Lee Cheng F., D.C. Heath and Co., Lexington, MA, 1993

Course Objectives

To gain a working knowledge of statistical methods and an understanding of the theory behind these methods. Discussion, problems, lecture, and computer exercises will be used. Specific objectives are:

- Considerations in collecting and presenting data
- Calculating and interpreting statistics
- Determining distributions
- Estimation
- Hypotheses Testing

Grading

Three (3) tests, each weighted 30% toward the final grade. Quizzes and homework, 10% of final grade.

Quizzes and homework problems are to master understanding of topics as the school term progresses. The tests are intended to measure competence, for which the quizzes and homework problems are indispensable preparation. All tests and quizzes are open book. A test can be made up only if the instructor is notified before the test. Tests are cumulative in the sense that learning statistics builds on materials covered previously. However, each test will focus on topics presented since the last test.

Attendance

Regular class attendance is important because we will be covering a lot of material in each 4-hour class session, and because learning is cumulative in that earlier topics are foundational for later ones in the course. Attendance will be taken at each class. Be sure to inform me when you foresee that you will miss a class. A missed test because of an unexcused absence receives a grade of 0.

Schedule

Chapter	Topic	Reading (pages)	Homework Problems
1	Introduction	All	4, 5, 7, 12
8.1-8.3, 20.1-2	Sampling	8.1, 8.2, 8.3 20.1, 20.2, 20.3 (text only)	8: 15, 18, 20 20: 1, 13, 14, 21, 33
2	Data Presentation	Skip the Appendix	3, 4, 5, 6, 8, 17, 51
3	Frequency Distributions	Skip pp 74-80	1, 2, 3, 6, 7, 9, 38, 40, 41
4	Summary Measures	Skip 4C	1, 4, 7, 10, 14, 17, 21, 27, 30, 55
TEST			
5	Probability Concepts	All	1, 4, 6, 9, 12, 16, 21, 33, 70, 78
6	Discrete Distributions	Skip 6.8, 6.9, 6B	1,2,5,6,10,11,14,24,25,27,34
7	Normal Distribution	Skip 7.4, 7B	2, 3, 4, 8, 10, 18, 21, 33, 36
9	Continuous Distributions	Skip the Appendix	2, 7, 8, 14, 19, 25, 29, 32, 37, 57
TEST			
8.4-8.6	Sampling Distributions	8.4-8.6	2, 3, 6, 23, 43, 58
10	Estimation	Skip the Appendix	1, 2, 4, 5, 6, 8, 16, 22, 28, 31, 88
11	Hypothesis Testing	Skip the Appendix	2 3, 6, 10, 13, 45, 49, 59, 63, 72
13 & 14*	Regression	13: Skip the Appendix	2, 10, 13, 21, 26,70
17*	Nonparametric Statistics		
TEST			

* If time permits

Homework problems will be started in class and if necessary, completed at home.