STAT 3743H - Honors Probability and Statistics

Fall 2026 Syllabus, Section 01, CRN 42294,

Credit hours: 4

Instructor

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Public Instructor Information

Instructor Title: Ph.D
Instructor Professional Qualifications: Ph.D Financial Mathematics, Florida State University, 2014

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Course Description

3743H. Honors Probability and Statistics. A calculus-based probability and statistics course. Topics include descriptive statistics, probability models and related concepts and applications, statistical estimation, and hypothesis testing. Credit will not be given for both STAT 3717 and STAT 3743/H. Prereq.: C or better in MATH 1571 or MATH 1572H. 4 s.h.

Course Readings

Group	Title	Author	ISBN
Required	Statistics for Engineers and Scientists, 6th edition	William Navidi	9781266672910

The course readings are subject to change in the event of extenuating circumstances, research developments, current events, and/or to ensure better learning.

Schedule of Topics and Assignments

Week of	Reading(s)	Proposed Topic	Due/To Prepare for Class
8/24	Chapter 1 (Section 1.1)	Sampling And Descriptive Statistics	Section 1.1 Homework Warm up Quiz 1
8/31	Chapter 1 (Section 1.2-1.3)	Sampling And Descriptive Statistics	Section 1.2 and 1.3 Homework Quiz 1 and Warm up quiz 2
9/7	Chapter 2 (Section 2.1-2.2)	Probability	Section 2.1-2.2 Homework Quiz 2 and Warm up quiz 3
9/14	Chapter 2 (Section 2.3-2.4)	Probability	Section 2.3-2.4 Homework Quiz 3 and Warm up quiz 4
9/21	Chapter 4 (4,1, 4,2, 4.3, 4.5)	Commonly Used Distributions	Section 4.1-4.5 Homework (exclude 4.4) Quiz 4 and Warm up quiz 5
9/28	Chapter 4 (4.7, 4.8,4.10, 4.11)	Commonly Used Distributions	Quiz 5 Section 4.7, 4.8,4.10, 4.11 Homework Exam 1
10/5	Chapter 5 (5.1-5.4)	Confidence Intervals	Warm up quiz 6 and Quiz 6 Sections 5.1-5.4 Homework
10/12	Chapter 5 (5.5-5.7)	Confidence Intervals	Warm up quiz 7 and quiz 7 Sections 5.5-5.7 Homework
10/19	Chapter 6 (6.1-6.4)	Hypothesis Testing	Warm up quiz 8 and Quiz 8 Section 6.1-6.4 Homework

10/26	Chapter 6 (6.5, 6.7,6.8, 6.10)	Hypothesis Testing	Warm up quiz 9 and Quiz 9 Section 6.5, 6.7,6.8, 6.10 Homework
11/2	Chapter 7 (7.1-7.4)	Correlation and Simple Linear Regression	Warm up quiz 10 and Quiz 10 Section 7.1-7.4 Homework Term Paper Proposal due
11/9	Chapter 8 (8.1-8.3)	Multiple Regression	Section 8.1-8.3 Homework Exam 2
11/16	Chapter 9 (9.1-9.2)	Factorial Experiments	Section 9.1-9.2 Homework Warm up quiz 11 and Quiz 11
11/23	Chapter 9 (9.3-9.4)	Factorial Experiments	Section 9.3-9.4 Homework Warm up quiz 12 and Quiz 12
11/30	Chapter 10 (10.1-10.3)	Statistical Quality Control	Final Term Paper presentation Section 10.1-10.3 Homework
12/7			Final Exam, Final Term Paper due

The course schedule, policies, procedures, and assignments in this course are subject to change in the event of extenuating circumstances, by mutual agreement, and/or to ensure better learning.