

Probability and Statistics for Mechanical Engineers

DESCRIPTION: From Course Description on file: "Principles of probability and statistics including events, Bayes' theorem, random variables, joint and marginal distributions, random sequences and series, reliability theory, estimation, and quality control. Examples drawn from engineering applications. 2 cr. 2 cr. either sem"

CLASS: TTH 11:15 – 12:05, **PHO 205**

DISCUSSION: TBD, see TF office hours

TEXT: Applied Statistics and Probability for Engineers, Montgomery and Runger 6th edition or 7e edition, Wiley. Ill give a problem correspondence between 6th and 7e editions. Syllabus will refer to 7e sections of text.

PROFESSOR: Glynn Holt rgholt@bu
110 Cummington, Rm 417
Office hours Th, 2-4:00, or by appointment

TF's: Victoria Doheny, vdoheny@bu.edu. Victoria will hold open office hours for tutorial help in TBD LOCATION on TBD TIMES

GRADING:

40%	(Weekly Homework)
40%	(Weekly In-Class Quizzes)
20%	Final Exam

HOMEWORK: Homework assignments are given out weekly with a few exceptions. They are due at the BEGINNING of class on the due date listed. LATE HOMEWORK WILL NOT BE ACCEPTED unless circumstances merit the exception.

EXAMS: I will give a 5 minute quiz at the beginning of every Tuesday (mostly) class, with a few exceptions. I will give a comprehensive final exam. No mid-term. "Make-up" exams will rarely be given, and never in the case of prior knowledge of a time conflict (you must arrange to take the test before you are away). A "make-up" quiz will be different from the quiz given in the class, and may be oral.

The final exam will be comprehensive., and scheduled by the registrar. Study. The final exam is TBD. DO NOT UNDER ANY CIRCUMSTANCE SCHEDULE TRIPS OR FLIGHTS HOME UNTIL AFTER THE OFFICIAL UNIVERSITY EXAM PERIOD. Study.

DROP DATES: Pay attention to the University's schedule of drop dates. You cannot drop this course after the last "W" date because of an impending low grade – you will receive your current grade if you drop after the official W date. "Incomplete" grades are reserved for the most extreme of circumstances, and are a NEGOTIATED CONTRACT between the student and myself.

PREREQUISITES FOR ME366: ENG EK127 & CAS MA225

COURSES FOR WHICH ME366 IS PREREQUISITE: ME310

COLLABORATION: In-class exercises: 100% collaboration: Done collectively.

Homework: 0-25% collaboration: You must do your own work, and turn in your own work. However, you are encouraged to consult with classmates on general concepts and even specific approaches.

Exams and quizzes: 0% collaboration: Done individually.

Syllabus by class

Class	DATES	LECTURE TOPIC	HOMEWORK
1	1/22	Admin; Concepts; Lecture 1: (2.1-2.2)	HW 1 (2.1-2.2) assign
2	1/24	Admin; Concepts; Lecture 2: (2.1-2.2)	
3	1/29	Quiz 1 (2.1-2.2); Lecture 3: (2.3-2.5)	HW1 due HW 2 (2.3-2.5) assign
4	1/31	Lecture 4: (2.3-2.5)	
5	2/5	Quiz 2 (2.3 - 2.5); Lecture 5: (2.6-2.8)	HW2 due HW 3 (2.6-2.8) assign
6	2/7	Lecture 6: (2.6-2.8)	
7	2/12	Quiz 3 (2.6 - 2.8); Lecture 7: 2.9, 3.1, 3.2	HW3 due HW4 (2.9-3.2) assign
8	2/14	Lecture 8: 2.9, 3.1, 3.2	
	2/19	MONDAY SCHEDULE	
9	2/21	Quiz 4 (2.9 - 3.2); Lecture 9: 3.3-3.5	HW4 due HW 5 (3.3-3.5) assign
10	2/26	Lecture 10: 3.3-3.5	
11	2/28	Quiz 5 (3.3-3.5); Lecture 11: 3.6-3.8	HW5 due HW6 (3.6-3.8) assign
12	3/5	Lecture 12: 3.6-3.8	
13	3/7	Quiz 6 (3.6-3.8) Lecture 13: 4.1-4.3	HW6 due HW7 (4.1-4.3) assign
	3/11, 13	SPRING BREAK	
14	3/19	Lecture 14: 4.1-4.3	
15	3/21	Quiz 7 (4.1-4.3) Lecture 15: 4.4-4.6	HW7 due HW8 (4.4-4.6) assign
16	3/26	Lecture 16: 4.4-4.6	
17	3/28	Quiz 8 (4.4-4.6) Lecture 17: 4.7-4.11	HW8 due HW9 (4.7-4.11) assign
18	4/2	Lecture 18: 4.7-4.11	
19	4/4	Quiz 9 (4.7-4.11) Lecture 19: 6.1-6.7	HW9 due HW10 (6.1-6.7) assign
20	4/9	Lecture 20: 6.1-6.7	
21	4/11	Quiz 10 (6.1-6.7) Lecture 21: 7.1-7.4	HW10 due HW11 (7.1-7.4) assign
	4/16	PATRIOTS DAY	
22	4/18	Lecture 22: 7.1-7.4	
23	4/23	Quiz 11 (7.1-7.4) Lecture 23: 8.1-8.7	HW11 due HW12 (8.1-8.7) assign
24	4/25	Lecture 24: 8.1-8.7	
25	4/30	Quiz 12 (8.1-8.7) Lecture 23: 9.1-9.11	HW12 due HW13 (9) assign
26	5/2	Lecture 24: 9.1-9.11	
Final	TBD	COMPREHENSIVE	

