

Homework makes up a hefty 20% of the grade. These problems are taken from the textbook "Probability and Statistics for Engineering and the Sciences" Enhanced 7ed. by Jay L. Devore, Brooks / Cole 2009. All starred (\*) problems are to be turned in. Homework from Wednesday, Friday and Monday will be due Friday. Late homework that is up to one week late will receive half credit. Homework that is more than one week late will receive no credit at all. Homework that is placed in the reader's mailbox before 5:00pm Friday will be considered on time. Our homework reader is Sungchan Choi. His mailbox is in JWB 228 in the back corner.

Your solutions must be self-contained. Please copy or paraphrase the problem. Your solutions must include some explanation. The answers given in the back or in the solutions manual will not be adequate. You will not receive any points just for copying the solution from the manual.

## SCHEDULE

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M = Midterm Day  
Q = Quiz day

Day	Section	Topic	Problems
M, Aug. 23	1.1-2	Terminology, Tabular Meth.	20[10*,12*,18*,24*,26*]
W 25	1.3	Measures of Location	30[33*,35*,38*,41*]
F 27	1.4	Measure Variability	39[44*,50*,51*,56*,69*]
M 30	2.1-2	Sample Space, Prob Axioms	50[2*,6*,8*,9*], 57[12*,13*,18*,20*,22*,26*]
W, Sept. 1 Q	2.3	Counting	65[32*,34*,36*,38,40,42*,44]
F 3		Probability Problems	82[98*,108,112]
M 6	* * *	Labor Day Holiday * * *	
W 8	2.4	Conditional Prob.	74[48*,49*,51*,62*,68], 83[104*]
F 10	2.5	Independence	80[74*,75*,76*,78*,80*]
M 13	3.1-2	Discrete Random Vars.	89[1*,8*], 98[12*,16*,17*,24*]
W 15 M		FIRST MIDSEMESTER EXAM	
F, 17	3.3	Expected Value	106[32*,33*,35*,36*,41*]
M 20	3.4	Binomial Dist.	113[47*,50*,51*,52*,57*,58*,63*]
W 22	3.5	Hypergeometric Dist.	120[68*,72*,75*]
F 24	3.6	Poisson Dist.	125[79-81*,86*,89*,90*]
M 27	4.1	Continuous R. V.'s	135[1*,2*,4*,6*]
W 29 Q	4.2	Cumulative Dist. Fn.	142[12*,18*,26*]
F, Oct. 1	4.3	Normal Dist.	154[34*,37*,38*,45*,53*]
M 4	4.4	Exp & Gamma Dist.	162[60*,66*,67*]
W 6	4.5	Other Distributions	168[73*,77*,84*]
F 8	4.6	Probability QQ-Plots	178[88*,92A*]
M 11	* * * * *		
W 13	* * *	Fall Break Holiday * * *	
F 15	* * * * *		
M 18	5.1	Jointly Dist. R.V.'s	194[1*,6*,10*]
W 20 M		SECOND MIDSEMESTER EXAM	
F 22	5.2	Covariance & Correlation	201[22*,25*,26*,30*]
M 25	5.3	Statistics & their Dists.	212[38*,41*]
W 27	5.4	Sample Mean Dist.	218[46*,47*,51*,53*,55*]
F 29	5.5	Dist. of Lin. Comb.	221[59*,61*,69*,72*]
M, Nov. 1	6.1	Point Estimation	240[1*,3*,8*,13*]
W 3 Q	7.1	Confidence Intervals	262[3*,5*,7*,9*,11*]
F 5	7.2	C. I. for Pop. Mean	268[13*,15*,17*,19*,21*]

M	8	7.3	Intervals for Normal Pops.	276[30*,32*,33*,35*,37*]
W	10	7.4	C. I. for Variance & S. D.	280[44*,46*]
F	12	8.1	Hypothesis Testing	293[7*,9*,11*]
M	15	8.2	Tests about Pop. Mean	304[19*,21*,23*,25*,29*,31*]
W	17		THIRD MIDSEMESTER EXAM	
F	20	8.3	Tests about Pop. Prop.	310[35*,37*,38*,39*]
M	22	8.4	P-Values	317[48*,50*,52*,57*]
W	24	8.5	Selecting a Test	321[61*]
F	26	* * *	Thanksgiving Day Holiday * * *	
M	29	9.1	Z-Test*, Compare two means	334[3*,5*,7*,9*,13*]
W, Dec. 1	Q	9.2	Two-Sample t-Test	341[21*,23bc*,25*,28*,33*]
F	3	9.3	Paired Data	350[39*,40*,43*]
M	6	9.4	Compare Two Proportions	358[47*,50*,51*,53*]
W	8	9.5	Compare Two Variances	402[61*,63*]
F	10		Review	

F, Dec. 17 F FINAL EXAM 8:00 - 10:00 AM, in BEH S 114