

Homework makes up a hefty 20% of the grade. These problems are taken from the textbook "Probability and Statistics for Engineering and the Sciences, 8th ed.," by Jay L. Devore, Brooks / Cole 2012. 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. The homework reader is Sarah Krstyen. Her email is: sarah.krstyen@gmail.com Homework that is placed in her mailbox in JWB 228 before she picks it up at about 4:00 pm Friday afternoon will be considered to be on time.

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    M = Midterm Day  
 -----    Q = Quiz day

Day	Section	Topic	Problems
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to be handed in Friday, Aug. 30.			
M, Aug. 26	1.1-2	Terminology, Tabular Meth.	24[10,12*,18*,24*,26*]
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to be handed in Friday, Sept. 6.			
W      28	1.3	Measures of Location	34[33*,35*,38*,41*]
F      30	1.4	Measure Variability	43[44*,50*,51,56,60*,69*]
M, Sept. 2	* * *	Labor Day Holiday	* * *
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to be handed in Friday, Sept. 13.			
W      4 Q	2.1	Sample Space, Prob Axioms	54[2*,6*,8*,9*]
F      6	2.2	Prob. Axioms	62[12,13*,18*,20*,22*,26]
M      9	2.3	Counting	71[32*,34*,36*,38,40,42*,44]
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to be handed in Friday, Sept. 20.			
W      11		Probability Problems	88[90,92,95*]
F      13	2.4	Conditional Prob.	80[48*,49*,51*,62*,68], 88[104*]
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to be handed in Friday, Sept. 27.			
M      16	2.5	Independence	86[74*,75*,76*,78*,80*]
W      18 M		FIRST MIDSEMESTER EXAM	
F      20	3.1-2	Discrete Random Vars.	95[1*,8*],104[12*,16*,17*,21,24*]
M      23	3.3	Expected Value	113[32*,33*,35*,36*,37,41*]
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to be handed in Friday, Oct. 4.			
W      25	3.4	Binomial Dist.	120[47*,50*,51*,52*,57*,58*,63*]
F      27	3.5	Hypergeometric Dist.	127[68*,72*,75*]
M      30	3.6	Poisson Dist.	132[79,80,81*,86*,89*,90*]
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to be handed in Friday, Oct. 11.			
W, Oct. 2 Q	4.1	Continuous R. V.'s	142[1*,2*,4*,6*]
F      4	4.2	Cumulative Dist. Fn.	150[12*,18*,26*]
M      7	4.3	Normal Dist.	162[34*,37*,38*,45*,53*]

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to be handed in Friday, Oct. 25.

W	9	4.4-5	Exp, Gamma, etc. Dist.	170[60*,66*,67*], 77[73*,77*,84*]
F	11	4.6	Probability QQ-Plots	187[88*,91*]
M	14	*****		
W	16	****	Fall Break Holiday	****
F	18	*****		

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to be handed in Friday, Nov. 1.

M	21	5.1	Jointly Dist. R.V.'s	203[1*,6*,10*]
W	23 M		SECOND MIDSEMESTER EXAM	
F	25	5.2	Covariance & Correlation	211[22*,25*,26*,30*]
M	28	5.3	Statistics & their Dists.	222[38*,41*,44*]

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to be handed in Friday, Nov. 8.

W	30	5.4	Sample Mean Dist.	229[46*,47*,51*,53*,55*]
F, Nov. 1		5.5	Dist. of Lin. Comb.	233[59*,61*,69*,72*]
M	4	6.1	Point Estimation	252[1*,3,8*,13*]

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to be handed in Friday, Nov. 15.

W	6 Q	7.1	Confidence Intervals	275[3*,5*,7*,9*,11*]
F	8	7.2	C. I. for Pop. Mean	283[13*,15*,17*,19*,21*]
M	11	7.3	Intervals for Normal Pops.	292[30*,32*,33*,35*,37*]

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to be handed in Friday, Nov. 22.

W	13	7.4	C. I. for Variance & S. D.	296[44*,46*]
F	15	8.1	Hypothesis Testing	308[7*,9*,11*]

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to be handed in Wednesday, Nov. 27.

M	18	8.2	Tests about Pop. Mean	320[19*,21*,23*,25*,29*,31*]
W	20 M		THIRD MIDSEMESTER EXAM	
F	22	8.3	Tests about Pop. Prop.	327[37*,39*,40*,42*]

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to be handed in Friday, Dec. 6.

M	25	8.4	P-Values	337[50*,52*,54*,59*]
W	27	8.5	Selecting a Test	341[63*]
F	29	***	Thanksgiving Day Holiday	***
M, Dec. 2		9.1	Z-Test*, Compare two means	354[3*,5*,7*,9*,13*]

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to be handed in Friday, Dec. 13.

W	4 Q	9.2	Two-Sample t-Test	362[21*,23bc*,25*,28*,33*]
F	6	9.3	Paired Data	371[39*,40*,43*]
M	9	9.4	Compare Two Proportions	380[49*,52*,53*,55*]
W	11	9.5	Compare Two Variances	385[63*,65*]
F	13		Review	

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W, Dec. 18 F FINAL EXAM 8:00 - 10:00 AM, in BEH S 114