

Syllabus for Applied Statistics Using Computers

MTH 214

Text: *Introduction to the Practice of Statistics, Eighth Edition*, by Moore, McCabe, and Craig. Student Edition Hardcover (packaged with EESEE/CrunchIt! access card) ISBN-13: 978-1-4641-5893-3, ISBN-10: 1-4641-5893-3. Student Edition Looseleaf (packaged with ESEE/CrunchIt! access card). Take heed! The seventh edition is very different and the two editions (7 and 8) are not interchangeable.

Seventh Edition		Eighth Edition	
Chapter 1 Distributions			
1.2 Graphs	21, 29, 30, 39	34, 40, 41	
1.3 Center and Spread	66, 68, 72, 75, 86	52, 72, 76, 79, 88	
1.4 Normal Distributions	112, 116, 120, 122, 126, 128, 131	118, 122, 130, 128, 133, 144	
Chapter 3 Data			
3.2 Design of Experiments	17, 18, 27, 30, 34a, 47	25, 27, 33, 34, 37	
3.3 Sampling Design	53, 55, 58, 63, 66, 72	57, 59, 62, 67, 70, 76	
3.4 Toward Inference	82, 83, 86, 95	83, 84, 85, 90, 91, 93	
3.5 Ethics	102, 103, 107, 108, 112	108, 109, 111, 112, 138	
Chapter 4 Probability			
4.1 Randomness	6, 7, 9	5, 6, 9	
4.2 Models	19, 21, 25,27, 33, 37	23, 25, 29, 31, 37	
4.3 RVs	49, 50, 54, 55, 57, 63, 64	53, 54, 56, 59, 61, 63, 64,	
4.4 Mean and Variance	72, 73, 77, 78, 85, 86, 87	78, 79, 82, 87, 89	
First Examination		Chapters 1, 3, 4	

Chapter 5 Sampling Distributions

5.1 Sampling Distribution of 7, 8, 9, 11, 21, 23 Sample Mean	9, 10, 11, 15, 25, 27
5.2 Sampling Distributions for 41, 43, 45, 47, 54, 55, 56	47, 49, 51, 53, 60, 62, 63
Counts and Proportions	

Chapter 6 Inference

6.1 Confidence Intervals	10, 11, 12, 13, 15, 17, 22, 23, 31	12, 13, 14, 15, 17, 19, 24, 25	
6.2 Significance	50, 51, 52, 53, 54, 56, 57, 58, 62, 63	52, 53, 54, 55, 56, 58, 59, 62, 63	
6.3 Abuse of Tests	86, 87, 89, 93, 95	92, 93, 95, 99, 100, 101	
6.4 Power, Error Types	104, 105, 111, 125	110, 111, 119, 133	
Chapter 7 Inference for Distributions			
7.1 One Mean	15, 16, 18, 21, 22, 23, 31	17, 18, 20, 23, 24, 25, 37	
7.2 Two Means	61, 62, 69, 70, 72, 73	63, 64, 74, 75, 76, 77	
Chapter 8 Inference for Proportions			
8.1 One Proportion	13, 14, 17, 25, 26, 37	20, 21, 25, 33, 36, 37	
8.2 Two Proportions	52, 53, 61, 62, 64	58, 59, 60, 70, 71	
Second Examination		Chapters 5, 6, 7, 8	

Chapter 9 Two-Way Tables

9.1 Two-way Tables	Chap 2 #125	123 (page 149)	
9.2 Goodness of Fit	Chap 9 #17, 23, 27, 28, 35, 55	25, 26, 27, 28, 29, 39, 45	
Chapter 2 Relationships			
2.2 Scatterplots	13, 14, 24, 29, 30, 31, 37	19, 24, 25, 33, 34, 37	
2.3 Correlation	47, 53, 54	43, 44, 57	
2.4 Least Squares	66, 68, 77, 78, 84	68, 69, 70, 85	
2.4 Cautions	94, 95, 96, 102	103, 104, 105, 111	
Chapter 10 Linear Regression			
Chapter 10	6, 7, 8, 10, 12, 20, 37	8, 9, 10, 16, 22, 39	
Third Examination		Chapters 9, 2, 10	

Chapter 12 ANOVA

Chapter 12	9, 10, 11, 13, 14, 15, 25	9, 10, 11, 13, 14, 15, 19

Final Examination	Comprehensive