

NEW YORK CITY COLLEGE OF TECHNOLOGY The City University of New York

DEPARTMENT: COURSE: TITLE: DESCRIPTION: Mathematics MAT 1272 Statistics

DESCRIPTION: An introduction to statistical methods and statistical inference. Topics include descriptive statistics, random variables, distributions, sampling estimation and inference, t-tests, Chisquare tests and correlation.

TEXT: Introductory Statistics 9th edition Prem S. Mann John Wiley & Sons

CREDITS: PREREQUISITES: 3 MAT 1190 or higher Spring 2020

Prepared by: Prof Johanna Ellner

A. Testing Guidelines:

The following examination schedule is suggested.

- 1. A one-hour exam at the completion of Lessons 1 5
- 2. A one-hour exam at the completion of Lessons 7 11
- 3. A one-hour exam at the completion of Lessons 13 18
- 4. A one-hour exam at the completions of Lessons 20 25
- 5. A one session Final Examination.
- B. Requirement: A statistical calculator. Instructions for the TI Graphing Calculator 83 or higher are provided in the textbook.

C. Homework

On-line Assignments noted on the syllabus contain exercises similar to those in the practice problems sets. These exercises are available on the Wiley Plus Web Site. The Web Site provides help with the solutions and records homework grades for each assignment. The assignment grade has been designed to allow students two attempts at each question for full credit. Further attempts will reduce the credit by 30%. Hints and solutions are provided.

MAT 1272StatisticsIntroductory Statistics by P. Mann 9th editionREGISTER for the on-line text and WileyPlus using the Course ID ______ (provided by instructor).

Lessons	Sections to Read	Homework
т 1		Practice Homework
Lesson I	1.1 Statistics and Types of Statistics	1.1: 1.1,1.3
	1.2 Basic Terms	1.2 : 1.5, 1.6
	1.3 Types of Variables	1.3 : 1.7, 1.9
	1.5 Population vs. Sample	1.5 : 1.13,1.19, 1.21, 1.25
		Graded On-Line HOMEWORK CHAPTER 1
Lesson 2		Practice Homework
	2.1 Organizing and Graphing Qualitative Data	2.1: 2.1,2.5,2.7 b
	2.2 Organizing and Graphing Quantitative Data	2.2 : 2.9, 2.11, 2.17 a - d
	(omit subsections: 2.2.5 and 2.2.8)	Graded On-Line HOMEWORK CHAPTER 2
Lesson 3		Practice Homework
Lesson 5	2.3 Stem-and-Leaf Displays	2.3: 2.25, 2.27
	1.7 Summation Notation using a T1 84	1.7:1.37,1.39
	3.1 Measures of Central Tendency for Ungrouped	3.1 : 3.1, 3.9, 313 abd, 3.19
	Data	Graded On-Line HOMEWORK CHAPTER 3 #1 of 2
	Learn how to use the calculator to find measures of	
	central tendency	
Lasson 4	3.2 Measures of Dispersion for Ungrouped Data (omit	Practice Homework
Lesson 4	coefficient of variance)	3.2: 3.29, 3.35a,c, 3.39a,c, 3.43
	Learn how to use the calculator to find standard	
	deviation	3.4: 3.59, 3.63
	3.4 Use of Standard Deviation only section 3.4.2	3.5: 3.69, 3.73
	3.5 Measures of Position	3.6 : 3.75, 3.77 AND
	3.6 Box-and-Whisker Plot outliers, left and right skews	Graded On-Line HOMEWORK CHAPTER 3 # 2 of 2
Lesson 5		Practice Homework
Lesson 5	13.1 Simple Linear Regression Model (Omit 13.1.7)	13.1: 13.2, 13,4, 13.11. 13.15, 13.19a,b 13.21all parts
	13.4. Linear Correlation – only calculating <i>r</i> 13.4.1	13.4 : 13.45 - 13.53 odd, 13.57a,b,
	Learn how to use the calculator to find slope and y-int	Graded On-Line HOMEWORK CHAPTER 13
	of regression line and the value of r. To find r go to	
	CATALOG scroll down to DIAGNOTIC and turn it	
	ON. (press enter twice)	
Lesson 6	Exam1	

Lesson 7	4.1 Experiment, Outcomes and Sample Space	Practice Homework 4.1: 4.1,4.3,4.7,4.9 4.2: 4.15,4.17,4.21,6dd 4.25,4.27
	4.2 Calculating riobaoliny	Graded On-Line HOMEWORK CHAPTER 4 #1 of 4
Lesson 8	 4.3. Different Probability Concepts 4.3.1 Marginal and Conditional Probabilities and Related 4.3.2 Mutually Exclusive Events 4.3.3 Independent vs. Dependent 	Practice Homework 4.3: 4.29 – 4.31 all, 4.33 a, b, 4.35 Graded On-Line HOMEWORK CHAPTER 4 # 2 of 4
Lesson 9	4.3.4 Complementary Events 4.4. Intersection of Events and the Multiplication Rule	Practice Homework 4.3: 4.32, 4.33 (c), 4.39 b, 4.41 4.4: 4.43, 4.45 a, b, c, 4.49 (a), 4.53-4.57 odd, 4.61 Graded On-Line HOMEWORK CHAPTER 4 # 3 of 4
Lesson 10	 4.5 Union of Events and the Addition Rule 4.6. Counting Rule, Factorials, Combinations, and Permutations Learn how to use the calculator for combinations and permutations (MATH) 	Practice Homework 4.5: 4.67,4.71(a),4.73,4.75 4.6: 4.83,4.87,4.91,4.93 odd Graded On-Line HOMEWORK CHAPTER 4 # 4 of 4
Lesson 11	5.5 The Hypergeometric Probability Distribution5.1 Random Variables	Practice Homework 5.5 : 5.43, - 5.45 all 5.1 : 5.1 – 5.3 all Graded On-Line HOMEWORK CHAPTER 5 # 1 of 3
Lesson 12	Exam 2	
Lesson 13	 5.2 Probability Distributions of a Discrete Random Variable 5.3 Mean and Standard Deviation of a Discrete Random Variable Learn how to use the calculator to find mean and standard deviation* See last page of syllabus 	Practice Homework 5.2: 5.5 - 5.7 all, 5.11 5.3: 5.15 - 5.19 odd, 5.23 Graded On-Line HOMEWORK CHAPTER 5 # 2 of 3
Lesson 14	5.4 The Binomial Probability Distribution Use formulas to find mean and standard deviation Learn how to use the binomial probability table on the calculator	Practice Homework 5.4: 5.27, 5.29, 5.30, 5.33 - 5.37 odd Graded On-Line HOMEWORK CHAPTER 5 # 3 of 3

Lesson 156.1 Continuous Probability Distribution and the Normal Probability Distribution Learn to use the calculator to find area under standard normal curve-back of Chapter 6Practice Homework Graded On-Line HOMEWORK CHAPTER 6 # 1 of 3Lesson 166.2 Standardizing the Normal Distribution 6.3 Applications of the Normal Distribution distributions.Practice Homework Graded On-Line HOMEWORK CHAPTER 6 # 1 of 3Lesson 176.4 Determining the of z and x Values when an Area Under the Normal Curve is Known Learn to use the calculator to find z-score given the area or percentage.Practice Homework Graded On-Line HOMEWORK CHAPTER 6 # 2 of 3Lesson 18Exam 3Practice Homework Graded On-Line HOMEWORK CHAPTER 6 # 3 of 3Lesson 197.1 Sampling Distribution of \overline{x} Practice Homework: Graded On-Line HOMEWORK CHAPTER 6 # 3 of 3Lesson 207.3 (7.3.1) Continued Central Limit Theorem, and Ex, 7.3 & Ex 7.4 7.4 Applications of the Sampling Distribution of \overline{x} Practice Homework 7.3 7.3.1, 7.4 use the calculator for partsa - e. 7.2.7, 7.7, 7.7, 7.3.3.1, 7.4 use the calculator for partsa - e. 7.2.7, 7.7, 7.7, 7.3.3.7, 7.3Lesson 219.1 Hypothesis Tests: An Introduction 9.2.1 by contexis Tests and the Sampling Distribution of \overline{x} Practice Homework 7.3.7.3.7.30 Practice Homework 7.3.7.3.1, 7.9.2.1, 9.2.3.1, 9.2.3 Graded On-Line HOMEWORK CHAPTER 7 #1 of 2Lesson 229.2.1 Hypothesis Tests and Introduction 9.2.1 (2)Practice Homework 7.3.7.3.1, 7.9.2.1, 9.2.9.1, 9.2.1, 9.2.3 Graded On-Line HOMEWORK CHAPTER 7 #1 of 4			
Lesson 136.1 Continuous Probability Distribution and the Normal Distribution standard normal curve -back of Chapter 66.1: 6.1, 6.5 - 6.17 odd Port 6.11-6.17 draw normal curve and shading the requested area(s). Graded On-Line HOMEWORK CHAPTER 6 # 1 of 3Lesson 166.2 Standardizing the Normal Distribution G.3 Applications of the Normal Distribution Learn to use the calculator with non standard normal distributions.6.2: 6.19 using the Formula, and use the calculator for 6.21 - 6.23 odd 6.2: 6.19 using the formula, and use the calculator for 6.21 - 6.23 odd 6.3: use the calculator for 6.25 - 6.31 odd Write answers in a complete sentence. Graded On-Line HOMEWORK CHAPTER 6 # 2 of 3Lesson 176.4 Determining the of z and x Values when an Area Under the Normal Curve is Known Learn to use the calculator to find z-score given the area or percentage.Lesson 18Exam 3Lesson 197.1 Sampling Distributions, Sampling Error, and Non- and Errors 7.2 Mean and Standard Deviation of \overline{x} Lesson 207.3 (7.3.1) Continued Central Limit Theorem, and Ex. 7.3 & Etr. 7.4 T.1, 7.14, 7.15 use the formulas 7.3: 7.13, 7.3Lesson 219.1 Hypothesis Tests: An IntroductionLesson 229.2: Hypothesis Tests about μ : σ Known 0.1 yerotion 9.2.2.U use critical value approach (Conti 9.2.1)Lesson 219.2: Hypothesis Tests about μ : σ Known 0.1 yerotion 9.2.2.U use critical value approach (Conti 9.2.1)Lesson 229.2: Hypothesis Tests about μ : σ Known 0.1 yerotion 9.2.2.U use critical value approach (Conti 9.2.1)1. Lesson 219.2: Hypothesis Tests about μ : σ Known 0.1 yerotion 9.2.2.U use critical value approach (Conti 9.2.1)<	Losson 15		Practice Homework
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distributions.Write answers in a complete sentence. Graded On-Line HOMEWORK CHAPTER 6 #2 of 3Lesson 176.4 Determining the of z and x Values when an Area Under the Normal Curve is Known Learn to use the calculator to find z-score given the area or percentage.6.4: use the calculator for: 6.37, Hart use the calculator for: 6.39 a -d, 6.40, 6.41 be sure to myrite answers in a complete sentence. Graded On-Line HOMEWORK CHAPTER 6 #3 of 3Lesson 18Exam 3Lesson 197.1 Sampling Distributions, Sampling Eror, and Non- sampling Erors 7.2 Mean and Standard Deviation of \overline{x} Practice Homework: 7.1: 7.1.7.3 all, 7.4 use the calculator for parts a - c. 7.3: 7.3 shape of the Sampling Distribution of \overline{x} Practice Homework: 7.3: 7.3.7.3.1, 7.4 use the calculator for parts a - c. 7.3: 7.3.8 Lape of the Sampling Distribution of \overline{x} Practice Homework 7.3: 7.3.7.3.1, 7.3.1,		Learn to use the calculator with non standard normal	6.3 : use the calculator for $6.25 - 6.31$ odd
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Lesson 176.4 Determining the of z and x Values when an Area Under the Normal Curve is Known Learn to use the calculator to find z-score given the area or percentage.Practice Homework 6.4' use the calculator for: 6.37, Hint: use the calculator to find z score and then use the z-score, mean and standard deviation to find x. 6.39 a. 4, 6.40, 6.41 be sure to write answers in a complete sentence. Graded On-Line HOMEWORK CHAPTER 6 # 3 of 3Lesson 18Exam 3Lesson 197.1 Sampling Distributions, Sampling Error, and Non- sampling Errors 7.2 Mean and Standard Deviation of \overline{x} 7.3 Shape of the Sampling Distribution of \overline{x} 7.37.3 Shape of the Sampling Distribution of \overline{x} 7.37.3 (7.3.1) Continued Central Limit Theorem, and Ex.7-3 & Ex 7-4 7.4 Applications of the Sampling Distribution of \overline{x} 1.Practice Homework 7.1 * 7.3 and the Common the Sampling Distribution of \overline{x} Lesson 219.1 Hypothesis Tests: An Introduction Only section 9.2.2 Use critical value approach (Omit 9.21)Practice Homework 9.21.9.19.21.9.9.3 (1.9.7) (Type 1 critic reice and the Sampling 2.2 Use critical value approach (Omit 9.21.9.9.9.11, 9.12.9.16, 9.19 (Type 1 critic reice and the Sampling 2.2 Use critical value approach (Omit 9.21.9.9.9.11, 9.12.9.16, 9.19 (Type 1 critic reice and the Sampling 2.2 Use critical value approach (Omit 9.21.9.23 Graded On-Line HOMEWORK CHAPTER 9 # 2 of 4			Graded On-Line HOMEWORK CHAPTER 6 # 2 of 3
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Lesson 21 Graded On-Line HOME WORK CHAPTER 7 # 2 of 2 Lesson 21 9.1 Hypothesis Tests: An Introduction Practice Homework 9.1: 9.1 - 9.5 all, 9.7 Graded On-Line HOME WORK CHAPTER 9 # 1 of 4 Lesson 22 9.2: Hypothesis Tests about μ: σ Known Practice Homework Only section 9.2.2 Use critical value approach (Omit 9.21) Practice Homework 9.21) Graded On-Line HOME WORK CHAPTER 9 # 1 of 4			Write answers in a complete sentence.
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9.21) (Type 1 error is rejecting a true hypothesis), 9.21, 9.23 Graded On-Line HOMEWORK CHAPTER 9 # 2 of 4		Only section 9.2.2 Use critical value approach (Omit	9.2: 9.9, 9.11, 9.12, 9.16, 9.19
Graded On-Line HOMEWORK CHAPTER 9 # 2 of 4		9.21)	(Type 1 error is rejecting a true hypothesis), 9.21, 9.23
		,	Graded On-Line HOME WORK CHAPTER 9 # 2 of 4

Lesson 23	9.2: Application using critical value approach	Practice Homework 9.2: 9.25 (b), 9.27 (b), 9.29 (b), 9.31(b) Show the rejection and non-rejection regions. Write answers in a complete sentence. Graded On-Line HOMEWORK CHAPTER 9 #3 of 4
Lesson 24	9.3: Hypothesis Tests about $\mu : \sigma$ <u>Unknown</u> Only section 9.3.2 Use critical value approach only (Omit 9.3.1)	Practice Homework 9.3: 9.34. 9.35, 9.38, 9.39, 9.45(a)- only using t-test, 9.45(b), 9.47 use calculator. Show the rejection and non-rejection regions. Write answers in a complete sentence Graded On-Line HOMEWORK CHAPTER 9 #4 of 4
Lesson 25	Exam 4	
Lesson 26	11.1 The Chi-Square Distribution 11.2 A Goodness-of-Fit Test	Practice Homework 11.1: 11.1,11.2 11.5a 11.2: 11.8, 11.9 – 11.15 odd Graded On-Line HOME WORK CHAPTER 11
Lesson 27	11.3 A Test about Independence or Homogeneity (Optional)	Practice Homework 11.3: 11.21 - 11.25 odd
Lesson 28	Review	TI calculator needed
Lesson 29	Revies	TI calculator needed
Lesson 30	Final Examination	TI calculator needed

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Calculator Instruction for MA1272-

found at the end of each of the following chapters: Chapter 1: Entering and Editing Data Operations with Lists Chapter 2: Creating a Frequency Histogram Creating a Stem-and-Leaf Chapter 3: Calculating Summary Statistics Creating a Box Plot Chapter 13: Find Regression Equation, r and r² (Diagnostic On) Chapter 4: Calculating !, n C r, n P r Chapter 5: * TI 84 + STAT, EDIT (enter x in column L1 and P(x) in column L2 STAT, CALC, 1-VAR, list L1, Frequency L2 enter TI 83+STAT, EDIT (enter x in column L1 and P(x) in column L2 STAT, CALC, 1-VAR L1, L2 enter Calculating a Binomial Probability Calculating a Cumula tive Binomial Probability Preparing a Binomial Probability Distribution Calculating a Hypergeometric Probability Chapter 6: Calculating a Left Tail Probability Calculating a Right Tail Probability Determining z when a Probability is known.