

## Course Syllabus – Statistical Methods

#### MATH 1342.151 & MATH 1342.451 – Fall 2019

**Department:** Mathematics and Engineering Instructor: Denise Johansen

**Discipline:** Mathematics **Office:** LBC 125-F; (806)716-4632

**Course Number:** Math 1342 **Cell/Text:** (513)227-0095

Course Title: Statistical Methods Email: djohansen@southplainscollege.edu

Credit: 3 Lecture: 3 Lab: 0 Time/Place: ARR/Internet

Lubbock Center Office Hours: MW 10am-11am, TTh 10am-11am and 3pm-5pm, F 9am-11am,

or by appointment

This course satisfies a core curriculum requirement: Yes – mathematics

Prerequisites: 2 years of high school algebra or Math 0320, TSI compliance

**Course Description:** Collection, analysis, presentation and interpretation of data, and probability. Analysis includes descriptive statistics, correlation and regression, confidence intervals and hypothesis testing. Use of appropriate technology is recommended.

**Course Purpose/Rationale/Goal:** To provide a transferable course in the elements of statistical methods.

#### **Student Learning Outcomes/Competencies:**

These course outcomes are listed with the relevant section numbers from the textbook that support them.

Upon completion of this course and receiving a passing grade, the student will be able to:

- 1. Explain the use of data collection and statistics as tools to reach reasonable conclusions. (CH 1, 2, 4-9)
- 2. Recognize, examine and interpret the basic principles of describing and presenting data. (CH 2)

- 3. Compute and interpret empirical and theoretical probabilities using the rules of probabilities and combinatorics. (CH 3-5, 7-9)
- 4. Explain the role of probability in statistics. (CH 3-5, 7-9)
- 5. Examine, analyze and compare various sampling distributions for both discrete and continuous random variables. (CH 4, 5)
- 6. Describe and compute confidence intervals. (CH 6, 8)
- 7. Solve linear regression and correlation problems. (CH 9)
- 8. Perform hypothesis testing using statistical methods. (CH 7, CH 8, 9.1)

#### **Core Objectives:**

#### **Communication Skills:**

effective development, interpretation, and expression of ideas through written, oral, and visual communication.

- Develop, interpret, and express ideas through written communication
- Develop, interpret, and express ideas through oral communication
- Develop, interpret, and express ideas through visual communication

#### Critical Thinking:

creative thinking, innovation, inquiry, analysis, evaluation, and synthesis of information.

- Generate and communicate ideas by combining, changing, and reapplying existing information
- Gather and assess information relevant to a question
- Analyze, evaluate, and synthesize information.

#### **Empirical and Quantitative Competency Skills:**

the manipulation and analysis of numerical data or observable facts resulting in informed conclusions.

- Manipulate and analyze numerical data and arrive at an informed conclusion
- Manipulate and analyze observable facts and arrive at an informed conclusion

Physical Textbook (Optional): Elementary Statistics: Picturing the World 7/e, Farber, Betsy | Larson, Ron. Pearson. ISBN-13: 9780134683416.

#### Supplies (Required):

Calculator: I HIGHLY recommend a graphing calculator with statistics package; TI-83/84 are preferred, but other models will work. For other models, you will have to read your manual or look online to learn how the various statistics commands work. NOTE: You may NOT use a calculator program on your phone or computer.

MyStatLab access code: Purchase from <a href="MyMathLab.com">MyMathLab.com</a> or from SPC Bookstore (ISBN 9780134761992. CourseID **Johansen42062** (includes access to electronic version of textbook).

#### **Technology Required:**

Working, reliable internet access
Access to our Blackboard class. Login at <a href="http://southplainscollege.blackboard.com">http://southplainscollege.blackboard.com</a>
MyStatLab website. Login at <a href="http://southplainscollege.blackboard.com">MyStatLab.com</a> or <a href="http://southplainscollege.blackboard.com">MyStatLab.com</a>

Course Delivery: This course is an online course, so you will access course information and correspond with me through use of the internet. I use MyStatLab and Blackboard to deliver and manage this course. I am available by phone or face-to-face visit in my office on the Lubbock Center campus during my posted office hours. I can also be reached by phone or text using my cellphone number (513-227-0095) during reasonable hours. If you have to leave a message, my response time is 1 business day or less. I will also record a weekly webinar where I will answer student questions using a virtual whiteboard, generally posted on Friday afternoons.

Course Requirements: To maximize the potential to complete this course, a student should login to Blackboard and MyMathLab/MyStatLab at least 3 times a week, read the required textbook sections, watch the required lecture videos and take notes, thoroughly complete all homework assignments, participate in Blackboard discussions, and prepare well for examinations, including final examinations. The Midterm Exam and Final Exam must be proctored, and more details on this are given in the Course Evaluation section of this syllabus. Additionally, students are expected to check email daily and respond to email communications. If you don't normally check your SPC email, make sure to set up your SPC gmail account to forward mail to an account you do check.

**Learning Materials/Activities:** To be successful in this course, you will use the following materials and complete the given activities for each section of the textbook that we will cover.

- Textbook reading Read the section in your textbook, whether you use a physical book or the eText inside MyStatLab. As you read, you should write notes on any new vocabulary words (usually in boldface type), formulas, theorems, and calculator commands. The reading is probably your first introduction to the concepts.
- Explore assignment Explore assignments for each section will be posted in MyStatLab under the Assignments button and will contain a link to the textbook section, video lectures, vocabulary/concept check questions, and sometimes applet animations, StatCrunch exercises, or graphing calculator videos. As you view the videos/animations, you should add any new information to your textbook notes and copy into your notes any examples worked for you in the video, just as if you were sitting in class with that instructor. The exploration assignment is like a guided practice—concepts are still very new, but you should be getting more familiar with them.
- Homework assignment Homework assignments for each section will be posted in MyStatLab under the Assignments button and will contain questions that may be multiple choice or fill-in-the-blank, but are primarily open-ended questions for problems that you work out. The questions generally give you 3 chances to get the question right before marking the problem wrong. You will then have access to a

Similar Question button that will give you a new question and 3 more chances to get the question right. You have unlimited attempts on homework questions, so if you are persistent, do your work on time, and learn from your mistakes, you can earn 100% on all homework assignments. Also, every homework question has a Question Help button in the top right corner that will walk you through the solution, show you a similar example, link to the textbook section, sometimes links to a video example, or gives you a button to Ask My Instructor which sends me an email with your question. The purpose of homework is to practice, practice, practice! This is where you actually are learning the concepts, not just watching someone else work problems.

Discussion board assignment – Not for each section we cover, but these are
assignments for you to get to know other students in the class, look for uses of
statistics in the real world, discuss strategies for solving statistical problems, and
generally get help from me and each other.

#### Course Evaluation:

- The Explore average will be worth 10% of your grade.
- The homework average is worth 20% of your grade, and the lowest 3 homework grades will be dropped.
- There will be 9 online Quizzes (1 per chapter we cover) posted in MyStatLab under the Assignments button. You may prepare ONE 3"x5" handwritten notecard for your reference for each quiz, but other than that notecard and your calculator, each quiz is to be completed on your own and without references—no using your text, no Google, no Phone a Friend. The purpose of each quiz is to help you review the chapter and start to see the "bigger picture", rather than just one section at a time. Quizzes are TIMED and help get you ready for the Exams. You have two attempts on each quiz (I HIGHLY recommend taking your first attempt early enough that you have time to review your errors before taking the quiz again), and only the highest of your two attempts will count in your average. The Quiz Average is worth 15% of your grade, and the lowest 2 quiz grades will be dropped.
- There will be a cumulative final project posted on Blackboard, worth 10% of your grade.
- There will be 5 required Discussion boards posted on Blackboard during the semester, worth a total of 5% of your grade.
- There will be 2 proctored paper/pencil/calculator/notecard exams during the semester, a midterm and a final exam, each worth 20% of your grade. For each of these two exams, you are allowed TWO 3"x5" handwritten, front and back, notecards. The Midterm and Final Exam must be taken with your instructor OR proctored, completed and returned to the instructor by the dates listed in the course calendar, and will be timed at 2 hours. A "Proctor Form" is available on Blackboard and will be emailed out at the beginning of the semester so you can find an appropriate proctor and provide the requested information about the proctor to me. All proctors MUST BE APPROVED by the instructor. You must complete the "Proctor Form" and return it to me on or before Thursday, September 19<sup>th</sup>. For those testing with me:
  - Midterm Exam (Chapters 1-5.3) must take on Wednesday, 10/16, from 8am-10am on Levelland campus, room to be determined OR Wednesday, 10/16, from 5:30pm-7:30pm at Lubbock Center campus, room to be determined.

- Final Exam (Chapters 5.4, 6-9) must take either Tuesday, 12/10, from 10:15am-12:15pm on Levelland campus, room to be determined, OR Wednesday, 12/11, from 5:30pm-7:30pm at Lubbock Center campus, room to be determined.
  If you are testing with an outside proctor, you need to take your exams on or about the dates the rest of the class is testing. You will need to arrange your school/life/work schedules to accommodate taking the midterm and final exams at the specified times. If you do not, you will receive a grade of a 0 for that exam.
- Late work: Late work on Explore, Homework, and Quizzes will be accepted in MyStatLab with a 10% deduction **per day** late. This means that if an assignment has 10 questions, and you get 9 of them correct and on time, you earned a 90% on the assignment. If you get the same 9 of them correct, but 2 days late, you have earned 80% of 90%, which is only 72%. For the cumulative project, there is also a 10% deduction **per day** late. There are no extensions of the original deadlines for any reason, so PLEASE do your assignments on time; don't shoot yourself in the foot! (There will be the same 10% **per day** late penalty for the Comprehensive Project.)

Grading Policy:		Letter Grades:	
Explore average	10%	90% - 100%	Α
Homework average	20%	80% - 89%	В
Quiz average	15%	70% - 79%	С
Final project	10%	60% - 69%	D
Discussion boards	5%	59% & below	F
Midterm exam	20%		
Final exam	20%		

How your work is graded: MyStatLab grades online assignments as a percentage based on how many parts of a question were answered correctly, and these grades are immediately included in your class average and in your MyStatLab Gradebook. For the Exams that I grade, I give a percentage of points based on how many parts of the question were answered correctly. For example, for a question about calculating a normal probability, I expect to see a drawing of a normal curve labeled correctly, the correct calculator command being used, the correct probability found, and a complete sentence stating your conclusion (if applicable). I will upload Exam grades into MyStatLab within 48 hours of their due dates, and MyStatLab will update your Gradebook and current class average to include those scores.

#### Response times for grading:

- Explore/Homework Graded immediately by MyStatsLab, reviewed by me within 1 business day if you contact me with a specific question/issue.
- Quiz Graded immediately by MyStatsLab, reviewed by me within 48 hours.
- Discussion Graded by me within 48 hours of due date.
- Exam Graded by me within 48 hours of due date.

**Attendance Policy:** Because this is an online class, there are no scheduled meetings other than the dates that you are taking in-class exams. For our purposes, you must login to MyMathLab

and work on at least 1 assignment per week. Failure to login or do any work for 2 weeks in a row will result in you being administratively withdrawn from the course with a grade of 'F' or 'X'.

Last day to drop is Thursday, November 14<sup>th</sup>.

#### **SPC School Holidays:**

Monday, 9/2, Labor Day Holiday Friday, 10/11, Fall Break Wednesday-Friday, 11/27-29, Thanksgiving Break

**Academic Integrity:** It is the aim of the faculty of South Plains College to foster a spirit of complete honesty and a high standard of integrity. The attempt of any student to present as his or her own any work which he or she has not honestly performed is regarded by the faculty and administration as a most serious offense and renders the offender liable to serious consequences, possibly suspension.

**Cheating:** Dishonesty of any kind on examinations or on written assignments, illegal possession of examinations, the use of unauthorized notes during an examination, obtaining information during an examination from the textbook or from the examination paper of another student, assisting others to cheat, alteration of grade records, illegal entry or unauthorized presence in an office are examples of cheating. Complete honesty is required of the student in the presentation of any and all phases of course work. This applies to quizzes of whatever length, as well as to final examinations, to daily reports and to term papers. Students caught cheating will receive a 0 on that assignment and face disciplinary action that can include being dropped from the class with a grade of 'F' and suspension from school.

**Language:** Please be respectful of others and use language that is appropriate to the workplace. Remember that you are addressing a group. Even though you don't see them, they will be reading. This means several things:

- Don't say/write things that you wouldn't say/write publicly (face-to-face).
- Don't address comments to individuals unless you want all to know what you are telling that person.
- Don't share confidential information. If you are quoting from something another person has sent you personally, ask their permission first.
- Read your message before you send it since once it is out there, you can't change it.

#### **Diversity Statement**

In this class, the teacher will establish and support an environment that values and nurtures individual and group differences and encourages engagement and interaction. Understanding and respecting multiple experiences and perspectives will serve to challenge and stimulate all of us to learn about others, about the larger world and about ourselves. By promoting diversity and intellectual exchange, we will not only mirror society as it is, but also model society as it should and can be.

**Disability Statement:** Students with disabilities, including but not limited to physical, psychiatric, or learning disabilities, who wish to request accommodations in this class should notify the Special

Services Office early in the semester so that the appropriate arrangements may be made. In accordance with federal law, a student requesting accommodations must provide acceptable documentation of his/her disability to the Special Services Coordinator. For more information, call or visit the Disability Services Office at Levelland (Student Health & Wellness Office) 806-716-2577, Reese Center (Building 8) 806-716-4675, or Plainview Center (Main Office) 806-716-4302 or 806-296-9611. The Disability Services website is at <a href="http://www.southplainscollege.edu/health/disabilityservices.php">http://www.southplainscollege.edu/health/disabilityservices.php</a>, and email is <a href="dvalles@southplainscollege.edu">dvalles@southplainscollege.edu</a>.

**Title IX Pregnancy Accommodations Statement:** If you are pregnant, or have given birth within six months, Under Title IX you have a right to reasonable accommodations to help continue your education. To activate accommodations you must submit a Title IX pregnancy accommodations request, along with specific medical documentation, to the Director of Health and Wellness. Once approved, notification will be sent to the student and instructors. It is the student's responsibility to work with the instructor to arrange accommodations. Contact Crystal Gilster, Director of Health and Wellness at 806-716-2362 or email <a href="mailto:cgilster@southplainscollege.edu">cgilster@southplainscollege.edu</a> for assistance.

**Non-Discrimination Statement:** South Plains College does not discriminate on the basis of race, color, national origin, sex, disability or age in its programs and activities. The following person has been designated to handle inquiries regarding the non-discrimination policies: Vice President for Student Affairs, South Plains College, 1401 College Avenue, Box 5, Levelland, TX 79336. Phone number 806-716-2360.

Campus Concealed Carry Statement: Texas Senate Bill - 11 (Government Code 411.2031, et al.) authorizes the carrying of a concealed handgun in South Plains College buildings only by persons who have been issued and are in possession of a Texas License to Carry a Handgun. Qualified law enforcement officers or those who are otherwise authorized to carry a concealed handgun in the State of Texas are also permitted to do so. Pursuant to Penal Code (PC) 46.035 and South Plains College policy, license holders may not carry a concealed handgun in restricted locations. For a list of locations and Frequently Asked Questions, please refer to the Campus Carry page at: <a href="http://www.southplainscollege.edu/campuscarry.php">http://www.southplainscollege.edu/campuscarry.php</a>

Pursuant to PC 46.035, the open carrying of handguns is prohibited on all South Plains College campuses. Report violations to the College Police Department at 806-716-2396 or 9-1-1.

#### **COURSE OUTLINE / CALENDAR\***

Problems are assigned online for each section of the textbook that we cover. To access online assignments, you must have an access code (you can buy a code for MyMathLab bundled with your textbook or you can buy just the code at <a href="www.mymathlab.com">www.mymathlab.com</a>) and register for our course (Course ID: <a href="johansen42062">johansen42062</a>) at <a href="www.mymathlab.com">www.mymathlab.com</a>) Assignments have due dates, generally at midnight on Mondays, and you will lose 10% per day for work completed after the due date passes. To master the material and prepare for the exams, you <a href="https://www.mymathlab.com">MUST</a> work extra problems!

\* Assignments and deadlines are subject to change at instructor's discretion, and all changes will be emailed to the class and posted in Blackboard and MyMathLab Announcements.

Date	Content	Assignments
Week 1	Orientation & Introduction to Statistics (Part 1)	Read Sections 1.1, 1.2
	Syllabus & Orientation	MML Orientation
8/26-9/1	1.1 – An Overview of Statistics	MML Explore 1.1, 1.2
	• 1.2 – Data Classification	MML Hwk 1.1, 1.2
		Blackboard Discussion
	Proctor Form (found on Blackboard)	1 – Introduce Yourself
	Submit by email by 9/9	
		Due 11:59pm, 9/3
Week 2	Introduction to Statistics (Part 2) & Descriptive	Read Sections 1.3, 2.1
	Statistics (Part 1)	MML Explore 1.3, 2.1
0/0.0/0	• 9/2 – Labor Day Holiday – No Classes!	MML Hwk 1.3, 2.1
9/2-9/8	• 1.3 – Data Collection and Experimental Design	MML Quiz 1 – Chapter 1
	• 2.1 – Frequency Distributions and Their Graphs	Dia Dia anatana 6
		Bb Discussion 2 –
		Sampling Methods
		Due 11:59pm, 9/9
Week 3	Descriptive Statistics (Part 2)	Read Sections 2.2-2.4
	• 2.2 – More Graphs and Displays	MML Explore 2.2-2.4
9/9-9/15	• 2.3 – Measures of Central Tendency	MML Hwk 2.2-2.4
	• 2.4 – Measures of Variation	
		Due 11:59pm, 9/16
Week 4	Descriptive Statistics (Part 3) & Probability (Part 1)	Read Sections 2.5, 3.1-3.2
	• 2.5 – Measures of Position	MML Explore 2.5, 3.1-3.2
9/16-9/22	• 3.1 – Basic Concepts of Probability and Counting	MML Hwk 2.5, 3.1-3.2
	• 3.2 – Conditional Probability and the Multiplication	MML Quiz 2 – Chapter 2
	Rule	
		Bb Discussion 3 – Stats
		in the Real World
		Duo 11:50nm 9/22
		Due 11:59pm, 9/23

Week 5	Probability (Part 2) & Discrete Probability Distributions (Part 1)	Read Sections 3.3-3.4, 4.1 MML Explore 3.3-3.4, 4.1
9/23-9/29	<ul> <li>3.3 – The Addition Rule</li> <li>3.4 – Additional Topics in Probability and Counting</li> </ul>	MML Hwk 3.3-3.4, 4.1  MML Quiz 3 – Chapter 3
	• 4.1 – Probability Distributions	Due 11:59pm, 9/30
Week 6	Discrete Probability Distributions (Part 2) & Normal Probability Distributions (Part 1)	Read Sections 4.2, 5.1-5.2 MML Explore 4.2, 5.1-5.2
9/30-10/6	• 4.2 – Binomial Distributions	MML Hwk 4.2, 5.1-5.2
	<ul> <li>5.1 – Introduction to Normal Distributions and the Standard Normal Distribution</li> <li>5.2 – Normal Distributions: Finding Probabilities</li> </ul>	MML Quiz 4 – Chapter 4
		Due 11:59pm, 10/7
Week 7	Normal Probability Distributions (Part 1) & Review for Midterm Exam	Read Section 5.3 MML Explore 5.3
10/7-10/13	<ul> <li>5.3 – Normal Distributions: Finding Values</li> <li>Review for Midterm Exam</li> </ul>	MML Hwk 5.3  **MML Review Quizzes
10/1 10/10	• 10/11 – Fall Break Holiday – No Classes!	(Chapters 1-5)  **MML Review Hwks
		**These assignments are optional and designed to show you where you need to focus your study for the Midterm Exam.
		Due 11:59pm, 10/14
Week 8	Normal Probability Distributions (Part 2) & Confidence Intervals (Part 1)	Read Section 5.4 MML Explore 5.4
	Midterm Exam (Chapters 1-5.3)	MML Hwk 5.4
10/14-10/20	Wednesday, 10/16, 8am-10am on Levelland campus, room to be determined OR	MML Quiz 5 – Chapter 5
	Wednesday, 10/16, 5:30pm-7:30pm at Lubbock Center campus, room to be determined OR	Due 11:59pm, 10/21
	Off-campus proctor, listed on your Proctor Form and approved by your instructor	
	<ul> <li>5.4 – Sampling Distributions and The Central Limit Theorem</li> </ul>	

• 6.1 — Confidence Intervals for the Mean (Large Samples) • 6.2 — Confidence Intervals for the Mean (Small Samples) • 6.3 — Confidence Intervals for Population Proportions  Week 10 10/28-11/3  Week 11  Week 11  Week 11  Hypothesis Testing with One Sample (Part 1) • 7.1 — Introduction to Hypothesis Testing • 7.2 — Hypothesis Testing for the Mean (Large Samples)  Week 11  Hypothesis Testing with One Sample (Part 2) • 8.2 — Hypothesis Testing for the Mean (Small Samples) • 7.4 — Hypothesis Testing for the Mean (Small Samples) • 7.4 — Hypothesis Testing for the Mean (Small Samples) • 7.4 — Hypothesis Testing for Proportions • 8.1 — Testing the Difference Between Means (Large Independent Samples)  Week 12  Week 12  Hypothesis Testing with Two Samples (Part 2) • 8.2 — Testing the Difference Between Means (Small Independent Samples) • 8.3 — Testing the Difference Between Means (Dependent Samples) • 8.4 — Testing the Difference Between Proportions • 8.1 — Testing the Difference Between Proportions • 8.2 — Read Sections 8.2-8.4 MML Explore 8.2-8.4 MML Explore 8.2-8.4 MML Explore 9.1-3 MML Quiz 8 — Chapter 8  Due 11:59pm, 11/18  Week 13  Week 13  11/18-11/24  Correlation and Regression • 9.1 — Correlation • 9.2 — Linear Regression • 9.2 — Linear Regression • 9.3 — Measures of Regression and Prediction Intervals  MML Quiz 9 — Chapter 9  Bb Discussion 5 — What Kind of Test is This?  Due 11:59pm, 11/25	Week 9	Confidence Intervals (Part 2)	Read Sections 6.1-6.3
• 6.2 – Confidence Intervals for the Mean (Small Samples) • 6.3 – Confidence Intervals for Population Proportions  Week 10 10/28-11/3  10/28-11/3  Week 11  Week 11  Week 11  Hypothesis Testing with One Sample (Part 1) • 7.2 – Hypothesis Testing for the Mean (Large Samples)  Week 11  Hypothesis Testing with One Sample (Part 2) & Hypothesis Testing with Two Samples (Part 1) • 7.3 – Hypothesis Testing for the Mean (Small Samples) • 7.4 – Hypothesis Testing for the Mean (Small Samples) • 8.1 – Testing the Difference Between Means (Large Independent Samples)  Week 12  Week 12  Hypothesis Testing with Two Samples (Part 2) • 8.2 – Testing the Difference Between Means (Small Independent Samples) • 8.4 – Testing the Difference Between Means (Dependent Samples) • 8.4 – Testing the Difference Between Proportions  Week 13  Week 13  Week 13  Week 14  Week 15  Correlation and Regression • 9.1 – Correlation • 9.2 – Linear Regression • 9.3 – Measures of Regression and Prediction Intervals  MML Quiz 9 – Chapter 6  Due 11:59pm, 10/28  MML Quiz 9 – Chapter 9  Bb Discussion 5 – What Kind of Test is This?	10/21 10/27	, ,	·
Week 10 10/28-11/3 Week 10 10/28-11/3 Week 11 Week 12 Week 12 Week 12 Week 12 Week 12 Week 13	10/21-10/21	• ,	IVIIVIL I IWK O. I-O.S
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Week 10 10/28-11/3  Hypothesis Testing with One Sample (Part 1) 7.1 – Introduction to Hypothesis Testing 7.2 – Hypothesis Testing for the Mean (Large Samples)  Hypothesis Testing with One Sample (Part 2) 8b Discussion 4 – What Kind of Interval is This? Due 11:59pm, 11/4  Week 11 Hypothesis Testing with Two Samples (Part 2) 8. Hypothesis Testing with Two Samples (Part 1) 7.3 – Hypothesis Testing for the Mean (Small Samples) 7.4 – Hypothesis Testing for Proportions 8.1 – Testing the Difference Between Means (Large Independent Samples)  Week 12 Hypothesis Testing with Two Samples (Part 2) 8.2 – Testing the Difference Between Means (Small Independent Samples) 8.3 – Testing the Difference Between Means (Dependent Samples) 8.4 – Testing the Difference Between Proportions Week 13 11/18-11/24  Correlation and Regression 9.1 – Correlation 9.2 – Linear Regression 9.3 – Measures of Regression and Prediction Intervals  MML Quiz 9 – Chapter 9  Bb Discussion 5 – What Kind of Test is This?		· · · · · · · · · · · · · · · · · · ·	Due 11:59nm 10/28
• 7.1 – Introduction to Hypothesis Testing • 7.2 – Hypothesis Testing for the Mean (Large Samples)  Week 11 Hypothesis Testing with One Sample (Part 2) & Hypothesis Testing with Two Samples (Part 1) • 7.3 – Hypothesis Testing with Two Samples (Part 1) • 7.3 – Hypothesis Testing for the Mean (Small Samples) • 7.4 – Hypothesis Testing for Proportions • 8.1 – Testing the Difference Between Means (Large Independent Samples)  Week 12 Hypothesis Testing with Two Samples (Part 2) • 8.2 – Testing the Difference Between Means (Small Independent Samples) • 8.3 – Testing the Difference Between Means (Dependent Samples) • 8.4 – Testing the Difference Between Proportions  Week 13 Usek 14 Usek 15 Usek 17-7-2 MML Hwk 7.1-7-2 MML Explore 7.1-7-2 MML Hwk 7.1-7-2 MML Hwk 7.1-7-2 MML Explore 7.1-7-2 MML Hwk 7.1-7-2 MML Explore 7.1-7-2 MML Hwk 7.1-7-2 MM		Proportions	Buc 11.05pm, 10/20
• 7.2 – Hypothesis Testing for the Mean (Large Samples)  Week 11 Hypothesis Testing with One Sample (Part 2) & Hypothesis Testing with Two Samples (Part 1) • 7.3 – Hypothesis Testing for the Mean (Small Samples) • 7.4 – Hypothesis Testing for Proportions • 8.1 – Testing the Difference Between Means (Large Independent Samples)  Week 12 Hypothesis Testing with Two Samples (Part 2) • 8.2 – Testing the Difference Between Means (Small Independent Samples) • 8.3 – Testing the Difference Between Means (Small Independent Samples) • 8.4 – Testing the Difference Between Proportions  Week 13 Hypothesis Testing with Two Samples (Part 2) • 8.2 – Testing the Difference Between Means (Dependent Samples) • 8.4 – Testing the Difference Between Proportions  Week 13 Hypothesis Testing with Two Samples (Part 2) • 8.2 – Testing the Difference Between Means (Dependent Samples) • 8.3 – Testing the Difference Between Proportions  Week 13 Hypothesis Testing with Two Samples (Part 2) • 8.2 – Testing the Difference Between Means (Dependent Samples) • 8.3 – Testing the Difference Between Proportions  Week 13 Hypothesis Testing with Two Samples (Part 2) • 8.2 – Testing the Difference Between Means (Dependent Samples) • 8.3 – Testing the Difference Between Means (Dependent Samples) • 8.4 – Testing the Difference Between Proportions  Week 13 Hypothesis Testing with Two Samples (Part 2) • 8.2 – Testing the Difference Between Means (Dependent Samples) • 8.3 – Testing the Difference Between Means (Dependent Samples) • 8.4 – Testing the Difference Between Means (Dependent Samples) • 8.4 – Testing the Difference Between Means (Dependent Samples) • 8.5 – Testing the Difference Between Means (Dependent Samples) • 8.6 – Testing the Difference Between Means (Dependent Samples) • 8.7 – Testing the Difference Between Means (Dependent Samples) • 8.8 – Testing the Difference Between Means (Dependent Samples) • 8.9 – Testing the Difference Between Means (Dependent Samples) • 8.9 – Testing the Difference Between Means (Dependent Samples) • 8.9 – Testing th	Week 10		
Week 11 Hypothesis Testing with One Sample (Part 2) & Hypothesis Testing with Two Samples (Part 1) • 7.3 – Hypothesis Testing for the Mean (Small Samples) • 7.4 – Hypothesis Testing for Proportions • 8.1 – Testing the Difference Between Means (Large Independent Samples)  Week 12 Hypothesis Testing with Two Samples (Part 2) • 8.2 – Testing the Difference Between Means (Small Independent Samples)  Hypothesis Testing with Two Samples (Part 2) • 8.2 – Testing the Difference Between Means (Small Independent Samples) • 8.3 – Testing the Difference Between Means (Dependent Samples) • 8.4 – Testing the Difference Between Proportions  Week 13 Hypothesis Testing with Two Samples (Part 2) • 8.2 – Testing the Difference Between Means (Dependent Samples) • 8.3 – Testing the Difference Between Proportions  Week 13 Hypothesis Testing with Two Samples (Part 2) • 8.2 – Testing the Difference Between Means (Dependent Samples) • 8.3 – Testing the Difference Between Proportions  Week 13 Hypothesis Testing with Two Samples (Part 2) • 8.2 – Testing the Difference Between Means (Dependent Samples) • 8.3 – Testing the Difference Between Proportions  Week 13 Hypothesis Testing with Two Samples (Part 2) • 8.2 – Testing the Difference Between Means (Dependent Samples) • 8.3 – Testing the Difference Between Means (Dependent Samples) • 8.4 – Testing the Difference Between Proportions  Week 13 Hypothesis Testing with Two Samples (Part 1) • 7.3 – Hypothesis Testing the MML Explore 7.3-7.4, 8.1  MML Explore 7.3-7.4, 8.1  MML Explore 7.3-7.4, 8.1  MML Explore 8.2-8.4  MML Hwk 8.2-8.4  MML Quiz 8 – Chapter 8  Due 11:59pm, 11/18  MML Explore 9.1-3  MML Explore 9.1-3  MML Explore 9.1-3  MML Hwk 9.1-3  MML Puiz 9 – Chapter 9  Bb Discussion 5 – What Kind of Test is This?	10/20 11/2		•
Week 11 Hypothesis Testing with One Sample (Part 2) & Hypothesis Testing with Two Samples (Part 1) • 7.3 – Hypothesis Testing for the Mean (Small Samples) • 7.4 – Hypothesis Testing for Proportions • 8.1 – Testing the Difference Between Means (Large Independent Samples)  Week 12 Hypothesis Testing with Two Samples (Part 2) • 8.2 – Testing the Difference Between Means (Small Independent Samples) • 8.3 – Testing the Difference Between Means (Dependent Samples) • 8.4 – Testing the Difference Between Proportions  Week 13 Usek 13 11/18-11/24 Correlation and Regression • 9.1 – Correlation • 9.2 – Linear Regression • 9.3 – Measures of Regression and Prediction Intervals  Hypothesis Testing with Two Samples (Part 2) • Read Sections 8.2-8.4  MML Quiz 7 – Chapter 7  Due 11:59pm, 11/11  Read Sections 8.2-8.4  MML Explore 8.2-8.4  MML Quiz 8 – Chapter 8  Due 11:59pm, 11/18  MML Explore 9. 1-3  MML Explore 9. 1-3  MML Hwk 9. 1-3  MML Hwk 9. 1-3  MML Hwk 9. 1-3  MML Policy 8 – Chapter 9  Bb Discussion 5 – What Kind of Test is This?	10/26-11/3	, , ,	IVIIVIL MWK 7.1-7.2
Week 11 Hypothesis Testing with One Sample (Part 2) & Hypothesis Testing with Two Samples (Part 1) • 7.3 – Hypothesis Testing for the Mean (Small Samples) • 7.4 – Hypothesis Testing for Proportions • 8.1 – Testing the Difference Between Means (Large Independent Samples)  Week 12  Hypothesis Testing with Two Samples (Part 2) • 8.2 – Testing the Difference Between Means (Small Independent Samples) • 8.3 – Testing the Difference Between Means (Dependent Samples) • 8.4 – Testing the Difference Between Proportions  Week 13  Week 13 11/18-11/24  Correlation and Regression • 9.1 – Correlation • 9.2 – Linear Regression • 9.3 – Measures of Regression and Prediction Intervals  Due 11:59pm, 11/14  MML Quiz 7 – Chapter 7  Due 11:59pm, 11/11  Read Sections 8.2-8.4  MML Explore 8.2-8.4  MML Quiz 8 – Chapter 8  Due 11:59pm, 11/18  Read Sections 9.1-3  MML Explore 9. 1-3  MML Explore 9. 1-3  MML Quiz 9 – Chapter 9  Bb Discussion 5 – What Kind of Test is This?		Samples)	Bb Discussion 4 – What
Week 11 Hypothesis Testing with One Sample (Part 2) & Hypothesis Testing with Two Samples (Part 1)  • 7.3 – Hypothesis Testing for the Mean (Small Samples)  • 7.4 – Hypothesis Testing for Proportions  • 8.1 – Testing the Difference Between Means (Large Independent Samples)  Week 12  11/11-11/17  Week 12  • 8.2 – Testing the Difference Between Means (Small Independent Samples)  • 8.3 – Testing the Difference Between Means (Small Independent Samples)  • 8.4 – Testing the Difference Between Proportions  Week 13  11/18-11/24  Correlation and Regression  • 9.1 – Correlation  • 9.2 – Linear Regression  • 9.3 – Measures of Regression and Prediction Intervals  Read Sections 7.3-7.4, 8.1  MML Explore 7.3-7.4, 8.1  MML Quiz 7 – Chapter 7  Due 11:59pm, 11/11  Read Sections 8.2-8.4  MML Explore 8.2-8.4  MML Quiz 8 – Chapter 8  Due 11:59pm, 11/18  MML Quiz 9 – Chapter 9  Bb Discussion 5 – What Kind of Test is This?			Kind of Interval is This?
Hypothesis Testing with Two Samples (Part 1)  7.3 – Hypothesis Testing for the Mean (Small Samples)  7.4 – Hypothesis Testing for Proportions  8.1 – Testing the Difference Between Means (Large Independent Samples)  Week 12  Hypothesis Testing with Two Samples (Part 2)  8.2 – Testing the Difference Between Means (Small Independent Samples)  8.3 – Testing the Difference Between Means (Dependent Samples)  8.4 – Testing the Difference Between Proportions  Week 13  Week 13  11/18-11/24  Correlation and Regression  9.1 – Correlation  9.2 – Linear Regression  9.3 – Measures of Regression and Prediction Intervals  MML Explore 7.3-7.4, 8.1  MML Quiz 7 – Chapter 7  Due 11:59pm, 11/11  Read Sections 8.2-8.4  MML Quiz 8 – Chapter 8  Due 11:59pm, 11/18  MML Quiz 8 – Chapter 8  Due 11:59pm, 11/18			Due 11:59pm, 11/4
• 7.3 – Hypothesis Testing for the Mean (Small Samples) • 7.4 – Hypothesis Testing for Proportions • 8.1 – Testing the Difference Between Means (Large Independent Samples)  Week 12 • 8.2 – Testing the Difference Between Means (Small Independent Samples) • 8.3 – Testing the Difference Between Means (Dependent Samples) • 8.4 – Testing the Difference Between Proportions  Week 13 • 8.7 – Chapter 7  Due 11:59pm, 11/11  Read Sections 8.2-8.4  MML Explore 8.2-8.4  MML Hwk 8.2-8.4  MML Quiz 8 – Chapter 8  Due 11:59pm, 11/18  Week 13 • 9.1 – Correlation • 9.2 – Linear Regression • 9.3 – Measures of Regression and Prediction Intervals  MML Quiz 9 – Chapter 9  Bb Discussion 5 – What Kind of Test is This?	Week 11	Hypothesis Testing with One Sample (Part 2) &	Read Sections 7.3-7.4, 8.1
11/4-11/10  Samples)  7.4 – Hypothesis Testing for Proportions  8.1 – Testing the Difference Between Means (Large Independent Samples)  Week 12  Hypothesis Testing with Two Samples (Part 2)  8.2 – Testing the Difference Between Means (Small Independent Samples)  8.3 – Testing the Difference Between Means (Dependent Samples)  8.4 – Testing the Difference Between Proportions  Week 13  Week 13  11/18-11/24  Correlation and Regression  9.1 – Correlation  9.2 – Linear Regression  9.3 – Measures of Regression and Prediction Intervals  MML Quiz 7 – Chapter 7  Due 11:59pm, 11/11  Read Sections 8.2-8.4  MML Hwk 8.2-8.4  MML Quiz 8 – Chapter 8  Due 11:59pm, 11/18  MML Explore 9. 1-3  MML Explore 9. 1-3  MML Explore 9. 1-3  MML Hwk 9. 1-3  MML Quiz 9 – Chapter 9  Bb Discussion 5 – What Kind of Test is This?			· · · · · · · · · · · · · · · · · · ·
• 7.4 – Hypothesis Testing for Proportions • 8.1 – Testing the Difference Between Means (Large Independent Samples)  Week 12  Hypothesis Testing with Two Samples (Part 2) • 8.2 – Testing the Difference Between Means (Small Independent Samples) • 8.3 – Testing the Difference Between Means (Dependent Samples) • 8.4 – Testing the Difference Between Proportions  Week 13  Week 13  11/18-11/24  Correlation and Regression • 9.1 – Correlation • 9.2 – Linear Regression • 9.3 – Measures of Regression and Prediction Intervals  MML Quiz 7 – Chapter 7  Due 11:59pm, 11/11  Read Sections 8.2-8.4  MML Hwk 8.2-8.4  MML Quiz 8 – Chapter 8  Due 11:59pm, 11/18  MML Quiz 9 – Chapter 9  Bb Discussion 5 – What Kind of Test is This?	11/4-11/10		MML HWK 7.3-7.4, 8.1
• 8.1 – Testing the Difference Between Means (Large Independent Samples)  Week 12  • 8.2 – Testing the Difference Between Means (Small Independent Samples)  • 8.3 – Testing the Difference Between Means (Dependent Samples)  • 8.4 – Testing the Difference Between Proportions  Week 13  11/18-11/24  Week 13  11/18-11/24  Correlation and Regression • 9.2 – Linear Regression • 9.3 – Measures of Regression and Prediction Intervals  Due 11:59pm, 11/11  Read Sections 8.2-8.4  MML Hwk 8.2-8.4  MML Quiz 8 – Chapter 8  Due 11:59pm, 11/18  MML Explore 9. 1-3  MML Explore 9. 1-3  MML Hwk 9. 1-3  MML Quiz 9 – Chapter 9  Bb Discussion 5 – What Kind of Test is This?	11/4-11/10		MML Quiz 7 – Chapter 7
Week 12  11/11-11/17  Hypothesis Testing with Two Samples (Part 2)  8.2 – Testing the Difference Between Means (Small Independent Samples)  8.3 – Testing the Difference Between Means (Dependent Samples)  8.4 – Testing the Difference Between Proportions  Week 13  11/18-11/24  Week 13  11/18-11/24  Correlation and Regression  9.1 – Correlation  9.2 – Linear Regression  9.3 – Measures of Regression and Prediction Intervals  MML Quiz 8 – Chapter 8  Due 11:59pm, 11/18  Read Sections 9.1-3  MML Explore 9. 1-3  MML Explore 9. 1-3  MML Hwk 9. 1-3  MML Quiz 9 – Chapter 9  Bb Discussion 5 – What Kind of Test is This?			B 44 50 4444
Week 12  Hypothesis Testing with Two Samples (Part 2)  • 8.2 – Testing the Difference Between Means (Small Independent Samples)  • 8.3 – Testing the Difference Between Means (Dependent Samples)  • 8.4 – Testing the Difference Between Proportions  Week 13  11/18-11/24  Correlation and Regression  • 9.1 – Correlation  • 9.2 – Linear Regression  • 9.3 – Measures of Regression and Prediction Intervals  By Discussion 5 – What Kind of Test is This?			Due 11:59pm, 11/11
**Number of the Difference Between Means (Small Independent Samples)     **Number of the Difference Between Means (Small Independent Samples)     **Number of the Difference Between Means (Dependent Samples)     **Number of the Difference Between Means (Dependent Samples)     **Number of the Difference Between Proportions  **Multiple Number of the Number of th			
(Small Independent Samples)  • 8.3 – Testing the Difference Between Means (Dependent Samples)  • 8.4 – Testing the Difference Between Proportions  Week 13  11/18-11/24  Correlation and Regression  • 9.1 – Correlation  • 9.2 – Linear Regression  • 9.3 – Measures of Regression and Prediction Intervals  MML Hwk 8.2-8.4  MML Quiz 8 – Chapter 8  Due 11:59pm, 11/18  Read Sections 9.1-3  MML Explore 9. 1-3  MML Hwk 9. 1-3  MML Quiz 9 – Chapter 9  Bb Discussion 5 – What Kind of Test is This?	Week 12	,	
• 8.3 – Testing the Difference Between Means (Dependent Samples) • 8.4 – Testing the Difference Between Proportions  Week 13 11/18-11/24  Correlation and Regression • 9.1 – Correlation • 9.2 – Linear Regression • 9.3 – Measures of Regression and Prediction Intervals  MML Quiz 8 – Chapter 8  Due 11:59pm, 11/18  Read Sections 9.1-3  MML Explore 9. 1-3  MML Hwk 9. 1-3  MML Quiz 9 – Chapter 9  Bb Discussion 5 – What Kind of Test is This?			·
(Dependent Samples)  • 8.4 – Testing the Difference Between Proportions  Week 13  11/18-11/24  Correlation and Regression  • 9.1 – Correlation  • 9.2 – Linear Regression  • 9.3 – Measures of Regression and Prediction Intervals  MML Quiz 8 – Chapter 8  Due 11:59pm, 11/18  Read Sections 9.1-3  MML Explore 9. 1-3  MML Hwk 9. 1-3  MML Quiz 9 – Chapter 9  Bb Discussion 5 – What Kind of Test is This?	11/11-11/17		IVIIVIL I IWK 0.2-0.4
<ul> <li>8.4 – Testing the Difference Between Proportions</li> <li>Week 13</li> <li>11/18-11/24</li> <li>Correlation and Regression         <ul> <li>9.1 – Correlation</li> <li>9.2 – Linear Regression</li> <li>9.3 – Measures of Regression and Prediction Intervals</li> </ul> </li> <li>MML Explore 9. 1-3         <ul> <li>MML Hwk 9. 1-3</li> </ul> </li> <li>MML Quiz 9 – Chapter 9         <ul> <li>Bb Discussion 5 – What Kind of Test is This?</li> </ul> </li> </ul>			MML Quiz 8 – Chapter 8
Week 13 11/18-11/24  Correlation and Regression  9.1 – Correlation  9.2 – Linear Regression  9.3 – Measures of Regression and Prediction Intervals  MML Quiz 9 – Chapter 9  Bb Discussion 5 – What Kind of Test is This?		, ,	Dua 11:50nm 11/10
<ul> <li>9.1 – Correlation</li> <li>9.2 – Linear Regression</li> <li>9.3 – Measures of Regression and Prediction Intervals</li> <li>MML Explore 9. 1-3 MML Hwk 9. 1-3</li> <li>MML Quiz 9 – Chapter 9</li> <li>Bb Discussion 5 – What Kind of Test is This?</li> </ul>		and a seeming and a seeming a seemin	Due 11.53piii, 11/10
<ul> <li>9.2 – Linear Regression</li> <li>9.3 – Measures of Regression and Prediction Intervals</li> <li>Bb Discussion 5 – What Kind of Test is This?</li> </ul>	Week 13	_	
9.3 – Measures of Regression and Prediction Intervals  MML Quiz 9 – Chapter 9  Bb Discussion 5 – What Kind of Test is This?	11/19 11/24		·
Intervals  Bb Discussion 5 – What Kind of Test is This?	11/10-11/24		IVIIVIL MWK Y. 1-3
Kind of Test is This?			MML Quiz 9 – Chapter 9
			Bb Discussion 5 – What
Due 11:59pm, 11/25			Kind of Test is This?
			Due 11:59pm, 11/25

Week 14 11/25-12/1	<ul> <li>Cumulative Project &amp; Thanksgiving Holiday</li> <li>Cumulative Project (posted on Bb)</li> <li>11/27-11/29 – Thanksgiving Holidays – No Classes!</li> </ul>	Due 11:59pm, 12/4
Week 15	Review for Final Exam  • Review for Final Exam	**MML Review Quizzes (Chapters 6-9)
12/2-12/8		**MML Review Hwks  **These assignments are optional and designed to show you where you need to focus your study for the Final Exam.  Due 11:59pm, 12/9
Week 16	Final Exam	
12/9-12/12	Final Exam (Chapters 6-9)     Tuesday, 12/10, 10:15am-12:15pm on     Levelland campus, room to be determined     OR     Wednesday, 12/11, 5:30pm-7:30pm at Lubbock     Center campus, room to be determined     OR     Off-campus proctor, listed on your Proctor Form and approved by your instructor	

<sup>\*</sup> Assignments and deadlines are subject to change at instructor's discretion, and all changes will be emailed to the class and posted in Blackboard and MyMathLab Announcements.