South Plains College
Common Course Syllabus: MATH 1342
Revised January 2022

Department: Mathematics, Engineering, and Computer Science

Discipline: Mathematics

Course Number: MATH 1342

Course Title: Statistical Methods

Available Formats: conventional, hybrid and internet

Campuses: Levelland, Reese, Plainview, Lubbock Center and Dual Credit

Course Description: Collection, analysis, presentation and interpretation of data, and probability. Analysis includes descriptive statistics, correlation and regression, confidence intervals and hypothesis testing.

Prerequisite: Minimum score of 350 on the TSIA1, minimum score of 950 on the TSIA2, a diagnostic score of 6 on the TSIA2, TSI-exempt status, a successful completion with a grade of 'C' or better in MATH 0337, or successful completion of NCBM-0112.

Credit: 3 **Lecture:** 3 **Lab:** 0

Textbook (Optional): *Elementary Statistics: Picturing the World*, Farber and Larson, 2019, 7th Edition, Pearson. ISBN-13: 9780134683416.

Supplies: Please see the instructor's course information sheet for specific supplies.

This course partially satisfies a Core Curriculum Requirement: Mathematics Foundational Component Area (020)

Core Curriculum Objectives addressed:
- **Communications skills**—to include effective written, oral and visual communication
- **Critical thinking skills**—to include creative thinking, innovation, inquiry, and analysis, evaluation and synthesis of information
- **Empirical and quantitative competency skills**—to manipulate and analyze numerical data or observable facts resulting in informed conclusions

Student Learning Outcomes: 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)

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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)

Student Learning Outcomes Assessment: A pre- and post-test questions will be used to determine the extent of improvement that the students have gained during the semester

Course Evaluation: There will be departmental final exam questions given by all instructors.

Attendance/Student Engagement Policy: Attendance and engagement are the most critical activities for success in this course. The instructor maintains records of the student's attendance and submission of assignments throughout the semester. The student is expected to attend at least eighty percent (80%) of the **total** class meetings **and** submit at least eighty percent (80%) of the **total** class assignments to have the best chance of success. For the purposes of this class, you are allowed to miss 19 assignments. If the student fails to meet these minimum requirements, the instructor <u>may</u> remove the student from the class with an X, upon their discretion, to help the student from harming their GPA. If the student can not receive an X, the instructor will assign an F.

Plagiarism violations include, but are not limited to, the following:
1. Turning in a paper that has been purchased, borrowed, or downloaded from another student, an online term paper site, or a mail order term paper mill;
2. Cutting and pasting together information from books, articles, other papers, or online sites without providing proper documentation;
3. Using direct quotations (three or more words) from a source without showing them to be direct quotations and citing them; or
4. Missing in-text citations.

Cheating violations include, but are not limited to, the following:
1. Obtaining an examination by stealing or collusion;
2. Discovering the content of an examination before it is given;
3. Using an unauthorized source of information (notes, textbook, text messaging, internet, apps) during an examination, quiz, or homework assignment;
4. Entering an office or building to obtain an unfair advantage;
5. Taking an examination for another;
6. Altering grade records;
7. Copying another's work during an examination or on a homework assignment;
8. Rewriting another student's work in Peer Editing so that the writing is no longer the original student's;
9. Taking pictures of a test, test answers, or someone else's paper.

Penalties for academic integrity violations will range from a 50% to a 100% grade reduction, depending on the severity of the infraction. Proctorio irregularities will also incur grade reductions, explained in the Proctorio folder on Blackboard.

COVID Syllabus Statement: Consistent with the latest CDC recommendations, we have revised our guidance for students, faculty, and staff who have a known exposure or have tested

positive. Anyone with a known exposure should wear a mask for 10 days and should seek a COVID-19 test on day five after exposure. If you test positive or develop symptoms, you should immediately self-isolate and seek a COVID-19 test. Please immediately notify your instructor, supervisor, and DeEtte Edens, Associate Director of Health and Wellness, at dedens@southplainscollege.edu or 806-716-2376 any time you test positive for COVID-19. Anyone who tests positive is required to self-isolate for five days. Following the five-day isolation period, if you are asymptomatic or your symptoms are resolving, you may return to work or class but should wear a mask for five additional days. If you are still symptomatic, please contact DeEtte Edens at dedens@southplainscollege.edu or 806-716-2376 prior to your return date.

Student Code of Conduct Policy: Any successful learning experience requires mutual respect on the part of the student and the instructor. Neither instructor nor student should be subject to others' behavior that is rude, disruptive, intimidating, aggressive, or demeaning**.** Student conduct that disrupts the learning process or is deemed disrespectful or threatening shall not be tolerated and may lead to disciplinary action and/or removal from class.

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 Disability 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 Disability Services Office. 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.

Nondiscrimination Policy: 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.

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 the Director of Health and Wellness at 806-716-2362 or email rcanon@southplainscollege.edu for assistance.

Campus Concealed Carry: 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: http://www.southplainscollege.edu/campuscarry.php

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.

SPC Bookstore Price Match Guarantee Policy: If you find a lower price on a textbook, the South Plains College bookstore will match that price. The difference will be given to the student on a bookstore gift certificate! The gift certificate can be spent on anything in the store.

If students have already purchased textbooks and then find a better price later, the South Plains College bookstore will price match through the first week of the semester.   The student must have a copy of the receipt and the book has to be in stock at the competition at the time of the price match.

The South Plains College bookstore will happily price match BN.com & books on Amazon noted as *ships from and sold by Amazon.com*. Online marketplaces such as *Other Sellers* on Amazon, Amazon's Warehouse Deals, *fulfilled by* Amazon, BN.com Marketplace, and peer-to-peer pricing are not eligible. They will price match the exact textbook, in the same edition and format, including all accompanying materials, like workbooks and CDs.

A textbook is only eligible for price match if it is in stock on a competitor's website at time of the price match request. Additional membership discounts and offers cannot be applied to the student's refund.

Price matching is only available on in-store purchases.   Digital books, access codes sold via publisher sites, rentals and special orders are not eligible. Only one price match per title per customer is allowed.

Note: The instructor reserves the right to modify the course syllabus and policies, as well as notify students of any changes, at any point during the semester.

Course Information Sheet - MATH 1342.151 – Summer I 2022

Instructor: Denise Johansen   **Office:** (806)716-4632

Cell/Text: (513)227-0095   **Email:** djohansen@southplainscollege.edu

Virtual Office Hours:
Live (Zoom) Q&A on T/Th 8-9pm (https://southplainscollege.zoom.us/j/92153244170) or individual Zoom appointment (schedule at https://go.oncehub.com/djohansen)

Physical Textbook (Optional): *Elementary Statistics: Picturing the World*, Farber and Larson, 2019, 7th Edition, 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 Excel, a calculator program on your phone, and NOT a TI-89 nor TI-Nspire.
- MyStatLab access code: The cost of this has already been added to the regular tuition and fees for the class through the TexBook program.   More information on this can be found below.

TexBook Program: This course is in the SPC TexBook program, so you do not need to purchase a separate textbook or access code for this course.

· What is TexBook? The required textbook/digital content for this course is available to you in Blackboard from the first day of class. The charge for the textbook/digital content is the lowest price available from the publisher and bookstore and is included in your tuition.

· How do I access my TexBook? Your course material is in your Blackboard course from the first day of class. Access to your course material is provided either by VitalSource or other links inside your Blackboard course. VitalSource (and many publisher's) ebook features include the ability to hear the text read aloud, highlight, take notes, create flash cards, see word definitions, build study guides, print select pages, and download 100% of the book for offline access.

· Help with TexBook issues and support: check with your professor or visit: https://support.vitalsource.com/hc/en-us/requests/new (available 24/7 via chat, email, phone, and text)

· Opting out of TexBook: Participating in TexBook is not mandatory, and you can choose to opt out. However, by opting out you will lose access to the course textbook/digital content and competitive pricing, and you will need to purchase the required course material on your own. If you drop the class or opt-out before the opt-out deadline, the TexBook fee will be automatically refunded to your SPC account. The opt-out deadline for Fall and Spring is the twelfth class day. The opt-out deadline for shorter terms varies between the second and third class day.

*Please consult with your professor before deciding to opt-out. If you still feel that you should purchase the course textbook/materials on your own, send an opt-out email to tfewell4texasbookcompany@gmail.com. Include your first name, last name, student ID number, and the course you are opting out of. Once you have been opted-out, you will receive a confirmation email. If you need assistance with the process, contact the SPC Bookstore:

Email: tfewell@texasbook.com / Phone: 806-716-2399

Email: agamble@texasbook.com / Phone: 806-716-4610

Technology Required:
>Working, reliable internet access
>Access to your SPC email.
>Access to our Blackboard class. Login at http://southplainscollege.blackboard.com
>MyStatLab website - login through Blackboard.
>Gradescope.com website – login through Blackboard.
>Physical scanner or scanner app for your phone. Scannable by Evernote is a great free iPhone app for this!
>Computer or laptop with Chrome browser, Proctorio extension for Chrome browser, webcam, and microphone for video.
>Computer, laptop, or tablet for accessing and completing assignments.

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 email, MyStatLab, Blackboard, Zoom, and Gradescope to deliver and manage this course. I do NOT use the Course Messages feature in Blackboard. I hold virtual office hours using Zoom (schedule time with me at https://go.oncehub.com/djohansen). I can also be reached by phone or text using my cellphone number (513-227-0095). If you have to leave a message, my response time is 1 business day or less.

Course Requirements: To maximize the potential to successfully complete this course, you should expect to spend 30-40 hours per week for the 5 weeks of our summer course doing the following:
- login to Blackboard EVERY day, use the MyStatLab button to login to MSL to read the required textbook sections, watch the required lecture videos and take notes, thoroughly complete all homework assignments, and prepare well for examinations.
- There will be two Blackboard discussion boards to be completed each week.
- The four written exams must be proctored using Proctorio , and more details on this are given in the Course Evaluation section of this syllabus and under the Course Resources button in Blackboard.

- Additionally, students are expected to check their school email **daily** and respond to email communications promptly. **If you don't normally check your SPC email, make sure to set up your SPC 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 Question Helps available at the bottom of the homework question. The Help Me Solve This button in the bottom left corner will walk you through a solution. Other helps may show you a similar example, link to the textbook section, sometimes links to a video example. Under Get More Help, there is usually 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. ==If you have to use the Question Help to work a problem, be sure to use the Similar Question button to work it again (and again!) until you can do the problems on your own.==
- Discussion board assignment – Not for each section we cover, but these are Blackboard 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. For each discussion, you have to make your post before you can read the other students' posts. Your initial post is usually due by 11:59pm on Mondays and Wednesdays, and your responses to classmates are usually due by 11:59pm on Tuesdays and Thursdays (Week 5 discussion is due on Wednesday).

Course Evaluation:
- The Explore average will be worth 5% of your grade.

- The homework average is worth 15% 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. <mark>These are NOT open book quizzes.</mark> 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 10% of your grade, and the lowest quiz grade will be dropped.
- There will be 9 required Discussion boards posted on Blackboard during the summer term, worth a total of 10% of your grade, and the lowest discussion grade will be dropped.
- There will be 4 proctored paper/pencil/calculator/notecard exams during the term, each worth 15% of your grade. For each of these exams, you are allowed a z-chart, t-chart, and ONE 3"x5" handwritten, front and back, notecard. The exams will be taken through Blackboard, must be proctored using Proctorio, and the scan of your work uploaded to Gradescope on the dates listed in the course calendar, and will be timed at 2 hours, including the time to scan and upload your work. More information on Proctorio is available on Blackboard on the Course Resources page and in the Proctorio folder, and you are responsible for all of that information. You will need to arrange your school/life/work schedules to accommodate taking the exams on the specified dates. If you miss an exam, I will substitute your Final Exam score for the missing grade. If you miss more than one exam, you will receive a 0 for the second missed exam. Missing the Final Exam will receive a 0.
    - Exam 1 (Chapters 1-3) – available on Bb from 12:00am to 11:59pm on Thursday, 6/16
    - Exam 2 (Chapters 4-6) – available on Bb from 12:00am to 11:59pm on Friday, 6/24
    - Exam 3 (Chapters 7-8) – available on Bb from 12:00am to 11:59pm on Tuesday, 7/5
    - Final Exam (Chapters 1-9) – available on Bb from 12:00am to 11:59pm on Friday, 7/8←You may have TWO 3"x5" handwritten, front and back, notecards.

- **Due dates:** Your initial posts on the required discussions are due on Mondays and Wednesdays by 11:59pm, and your follow-up posts are due on Tuesdays and Thursdays by 11:59pm. MyStatLab assignments for the following week will be released on Fridays. Due dates for MSL assignments and the exams are listed in the Course Outline section of the Syllabus and on the Course Calendar.
- **Late work:** Late work on Explore, Homework, and Quizzes will be accepted in MyStatLab with a 20% late deduction. 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 even one day late, you have earned 80% of 90%, which is only 72%. PLEASE do your assignments on time; don't shoot yourself in the foot! Blackboard Discussions will also be accepted with a 20% late deduction. **No assignments will be accepted after a hard deadline of 11:59pm on Friday, July 8th**.

Grading Policy:

			Letter Grades:			
Explore average	5%		90%	- 100%	A
Homework average	15%		80%	- 89%	B
Quiz average	10%		70%	- 79%	C
Discussion boards	10%		60%	- 69%	D
Exam 1	15%		59% & below		F
Exam 2	15%				
Exam 3	15%				
Final Exam	15%				

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 MSL class average and in your MSL Gradebook.
    - o You can access the MSL Gradebook by clicking on the MyStatLab button in Blackboard, click on the MyLab and Mastering Course Home link, then click on the Gradebook button.
    - o MSL Gradebook items should sync with the Blackboard Gradebook every hour.
- For the Discussion Boards, your original post is generally worth 3 points, and your meaningful responses to 2 classmates are worth 2 points. Any exception to this will be explained in the instructions for that discussion.
- 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).
    - o You will take your exams through Blackboard and Proctorio and upload a .pdf scan of your work to Gradescope. I will grade exams and "publish" grades in Gradescope, and Gradescope will update your Bb 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 1 business day if you contact me with a specific question/issue.
- Discussion – Graded by me within 72 hours of due date.
- Exam - Graded by me within 48 hours of due date.

Last day to drop is Thursday, June 30th.

SPC School Holiday:
Monday, 7/4, Independence Day Holiday

Daily Health Screening: Though this is an online class, CONTACT ME if you are having any health issues that interfere with taking your exams or completing other assignments on time.

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.

COURSE OUTLINE / CALENDAR*

Problems are assigned online in MyStatLab for each section of the textbook that we cover. To access online assignments, you must opt-in by clicking the Course Content button in Blackboard, then click the MyStatLab Content link, then click the Launch Courseware button. (If you opt-out, you can buy an access code for MyStatLab directly from Pearson Publishing, but this will cost more.) Assignments have due dates, and you will lose 20% for work completed after the due date passes. To master the material and prepare for the exams, you **MUST** work 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 Announcements.

Date	Content	Assignments
Chapter 1 6/6	**Orientation, Introduction to Statistics** • Syllabus & Day 1 Checklist • Bb Discussion 1 – Introduce Yourself	Read Sections 1.1-1.3 MSL Orientation MSL Explore 1.1-1.3 MSL Hwk 1.1-1.3
6/7	• MSL Orientation • 1.1 – An Overview of Statistics • 1.2 – Data Classification	**Bb Discussion 1 – Due 6/7**
6/8	• 1.3 – Data Collection and Experimental Design • Quiz 1 – Chapter 1 • Bb Discussion 2 – Success Plan	**Respond to Welcome Email – Due 6/8** **Syllabus Quiz – Gradescope – Due 6/8** **Bb Discussion 2 – Due 6/9** **MSL Quiz 1 – Chapter 1** **All MSL Chapter 1 assignments due 11:59pm, 6/9**

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Chapter 2 6/8 6/9 6/10	**Descriptive Statistics** • 2.1 – Frequency Distributions and Their Graphs • 2.2 – More Graphs and Displays • 2.3 – Measures of Central Tendency • 2.4 – Measures of Variation • 2.5 – Measures of Position • MSL Quiz 2 – Chapter 2	Read Sections 2.1-2.5 MSL Explore 2.1-2.5 MSL Hwk 2.1-2.5 **MSL Quiz 2 – Chapter 2** **All MSL Chapter 2 assignments due 11:59pm, 6/13**
Chapter 3 6/13 6/14 6/15 6/16	**Probability & Exam 1** • 3.1 – Basic Concepts of Probability and Counting • 3.2 – Conditional Probability and the Multiplication Rule • Bb Discussion 3 – Sampling Methods • 3.3 – The Addition Rule • 3.4 – Additional Topics in Probability and Counting • Bb Discussion 4 – Study Strategies • Review for Exam 1 • **Exam 1 (Ch. 1-3) ← (Available on Bb)** Additional paper and pencil review with answer key posted on Bb on Course Resources page and in the Review Materials folder.	Read Sections 3.1-3.4 MSL Explore 3.1-3.4 MSL Hwk 3.1-3.4 **MSL Review Quizzes (Chapters 1-3) **MSL Review Hwks **These assignments are optional, designed to show you where you need to focus your study for Exam 1, and worth up to 3 bonus points on the exam. Due by 11:59pm on 6/15 to earn bonus points. **Bb Discussion 3 – Due 6/14** **Bb Discussion 4 – Due 6/16** **MSL Quiz 3 – Chapter 3** **All MSL Chapter 3 assignments due 11:59pm, 6/15**
Chapter 4 6/16 6/17	**Discrete Probability Distributions** • 4.1 – Probability Distributions • 4.2 – Binomial Distributions	Read Sections 4.1-4.2 MSL Explore 4.1-4.2 MSL Hwk 4.1-4.2 **MSL Quiz 4 – Chapter 4** **All MSL Chapter 4 assignments due 11:59pm, 6/20**

Chapter 5 6/17	**Normal Probability Distributions** • 5.1 – Introduction to Normal Distributions and the Standard Normal Distribution • 5.2 – Normal Distributions: Finding Probabilities • 5.3 – Normal Distributions: Finding Values • Bb Discussion 5 – Growth Mindset • 5.4 – Sampling Distributions and The Central Limit Theorem	Read Sections 5.1-5.4 MSL Explore 5.1-5.4 MSL Hwk 5.1-5.4 **MSL Quiz 5 – Chapter 5** **Bb Discussion 5 – Due 6/21** **All MSL Chapter 5 assignments due 11:59pm, 6/22**
6/20		
6/21		
Chapter 6 6/21	**Confidence Intervals & Exam 2** • 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 • Bb Discussion 6 – Review Success Plan • Review for Exam 2 • **Exam 2 (Ch. 4-6)** ← **(Available on Bb)** Additional paper and pencil review with answer key posted on Bb.	Read Sections 6.1-6.3 MSL Explore 6.1-6.3 MSL Hwk 6.1-6.3 **MSL Review Quizzes (Chapters 4-6) **MSL Review Hwks **These assignments are optional, designed to show you where you need to focus your study for Exam 2, and worth up to 3 bonus points on the exam. Due by 11:59pm on 6/23 to earn bonus points. **Bb Discussion 6 - Due 6/23** **MSL Quiz 6 – Chapter 6** **All MSL Chapter 6 assignments due 11:59pm, 6/23**
6/22		
6/23		
6/24		
Chapter 7 6/27	**Hypothesis Testing with One Sample** • 7.1 – Introduction to Hypothesis Testing • 7.2 – Hypothesis Testing for the Mean (Large Samples) • Bb Discussion 7 - What Kind of Interval is This? • 7.3 – Hypothesis Testing for the Mean (Small Samples) • 7.4 – Hypothesis Testing for Proportions	Read Sections 7.1-7.4 MSL Explore 7.1-7.4 MSL Hwk 7.1-7.4 **MSL Quiz 7 – Chapter 7** **Bb Discussion 7 – Due 6/28** **All MSL Chapter 7 assignments due 11:59pm, 6/29**
6/28		

Chapter 8 6/29	**Hypothesis Testing with Two Samples** • 8.1 – Testing the Difference Between Means (Large Independent Samples) • 8.2 – Testing the Difference Between Means (Small Independent Samples) • Bb Discussion 8 - Gratitude	Read Sections 8.1-8.4 MSL Explore 8.1-8.4 MSL Hwk 8.1-8.4 **MSL Review Quizzes (Chapters 7 & 8) **MSL Review Hwks
6/30	• 8.3 – Testing the Difference Between Means (Dependent Samples) • 8.4 – Testing the Difference Between Proportions	**These assignments are optional, designed to show you where you need to focus your study for the Exam 3, and worth up to 3 bonus points on the exam. Due by 11:59pm on 7/4 to earn bonus points.
7/1-7/4	• Review for Exam 3	
7/5	• **Exam 3 (Ch. 7 & 8) ← (Available on Bb)** Additional paper and pencil review with answer key posted on Bb.	**Bb Discussion 8 – Due 6/30** **MSL Quiz 8 – Chapter 8** **All MSL Chapter 8 assignments due 11:59pm, 7/1**
Chapter 9 7/5	**Correlation and Regression & Exam 3** • 9.1 – Correlation • Bb Discussion 9 – Hypothesis Tests	Read Sections 9.1-3 MSL Explore 9.1-3 MSL Hwk 9.1-3 **Bb Discussion 9 – Due 7/6**
7/6	• 9.2 – Linear Regression • 9.3 – Measures of Regression and Prediction Intervals	**MSL Quiz 9 – Chapter 9** **All MSL Chapter 9 assignments due 11:59pm, 7/7**
7/7	**Final Exam** • Review for Final Exam	
7/8	• **Final Exam (Chapters 1-9) ← (Available on Bb)** Additional paper and pencil review with answer key posted on Bb.	

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