



**Math 1342.101CL**

**Elementary Statistical Methods**

**STEAM Bldg, Room 105**

**Fall 2021**

**MW: 2-3:50**

**Instructor Information:**

**Name:** Ms. Kristi Kelley

**Phone:** 409-933-8287

**Office:** STEAM Bldg, 325-05

**Email:** [kkelley9@com.edu](mailto:kkelley9@com.edu)

**Communicating with your instructor:** ALL electronic communication with the instructor must be through your **COM email**. Due to **FERPA** restrictions, faculty cannot share any information about performance in the class through other electronic means. *I recommend downloading the Outlook app on your smart phone so you can check your email easy and often. It is CRUCIAL to your success in the course that you check your email AT LEAST once per day.*

**Communicating with your instructor:** ALL electronic communication with the instructor must be through your **COM email**. Due to **FERPA** restrictions, faculty cannot share any information about performance in the class through other electronic means.

**Remind101:** To get text reminders about assignments that are due and to be able to text me from your phone, join your class's Remind101 by one of the methods below:

- 1) Join Remind101 by clicking the link. [Click here to join Remind101](#)
- 2) Join by texting @ 3fk4k9 to the number 81010
- 3) Download the Remind101 app on your smart phone. Choose "Join class" in the left-hand toolbar. Enter @ 3fk4k9

**class remind code: @ 3fk4k9**

**Microsoft Teams:** Join the Team for *virtual office hours* by either of the two methods below. You will need to join to be able to come to virtual office hours. *Login using your COM email address and password.*

- 1) clicking the link [Click here to join the Virtual Office Hours Team](#)
- 2) Downloading Microsoft Teams or going to Microsoftteams.com. Click join/create team. Input the Team code: **73e624w**

Join the Team for the *Math 1342.101 class Team* by either of the two methods below.

- 1) clicking the link [Click here to join the Virtual Office Hours Team](#)
- 2) Downloading Microsoft Teams or going to Microsoftteams.com. Click join/create team. Input the Team code: **imqydoa**

**Student hours and location:** Office hours are to be held my office: *STEAM Bldg, 325-05* or virtually via Microsoft Teams. You'll need to join the class "Team" to come to virtual office hours.

**Days/Times:** M, W: 11:30 AM – 2:00 PM

T, TH: 11:00 AM -12:00 PM ; 1:30 – 2:00 PM

-If you are needing to meet with me virtually for assistance, please send me an email.

-If you have a question outside of office hours, please send me an email, and I will find a time to meet with you virtually.

**Required Textbook/Materials:**

1. Textbook:

**ISBN:** 9780134856254

**Title:** Statistics: Informed Decisions Using Data with Integrated Review, Books a la Carte Edition plus MyStatLab with Pearson eText

**Author:** Michael Sullivan

**Edition:** 5

**Copyright:** 2017

**Publisher:** Pearson

2. A computer/laptop and internet service are required to gain access to the required assignments. *Some devices like iPads/tablets and cellphones present problems with gaining access to MyMathLab, so they are not acceptable devices for this class.*

**Note: MyMathLab generally does not like Safari. Download Chrome and Firefox if you have an Apple Computer.**

3. *MyMathLab* access code is required for this class. Your homework, quizzes, and tests will be located at [www.mymathlab.com](http://www.mymathlab.com)

**-Make sure you use your COM email when registering for MyMathLab.**

-Go to your Blackboard (BB) math course and register for MML. Look for **Pearson: MyMathLab** link in the left-hand toolbar of BB.

4. A **TI-84 Plus calculator** is needed for this course.

5. A free PDF converter app or a printer that can scan documents is needed to submit scratch work/worksheets, etc.

***Purchasing options for the MML access code:***

1. You can purchase an access code with a textbook from the bookstore.

2. You can also purchase the access code by itself directly through MyMathLab. (This is usually the cheapest option)

3. You can gain a two-week temporary access to *MyMathLab*, but you must purchase permanent access in *MyMathLab* immediately once this has ended, using the same account, for you to be able complete any assignments after the temporary access ends. ***Due dates will not be extended for losing access after the temporary access has ended due to you falling more and more behind with an extension. Please make sure you have the funds for MyMathLab within the two-week temporary access.***

***You will gain access to the e-book with purchase of an access code.***

### ***Accessing MyMathLab:***

-Make sure you use your COM email when registering for *MyMathLab*.

-Go to the course in Blackboard (BB) to register for MML. Look for **Pearson: MyMathLab** link in the left-hand toolbar of BB.

-You will not need a course ID since BB and MML are linked.

-It is recommended that you go to MML from BB since they are linked. You will not need to login to MML if you access MML through BB.

-If BB is ever down, you can access MML by going to [mymathlab.com](http://mymathlab.com). You will need your username and password when going this route.

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

### **Course requirements:**

#### **Homework Assignments**

-There is assigned homework for each section to be done online using *MyMathLab* as well as test reviews.

-Other homework assignments besides *My Math Lab* will be given during the semester. To receive credit for the questions, follow instructions and show incremental, organized, and legible work. In addition, methods used to solve must match the instructions stated in the problem.

-Each homework assignment besides *My Math Lab* will be scanned and converted to a single PDF file (using a PDF converter app on your smartphone or a printer at the college) and uploaded to Blackboard.

-The deadline for each assignment must be met and no retakes are provided. If the homework assignment is not submitted or is not submitted by the deadline, a grade of zero will be recorded for the assignment.

#### **Quizzes**

-There are four online quizzes.

-You can retake each quiz just once to improve your score; the higher score will be the one that counts.

-There may be in class quizzes given throughout the semester.

#### **Exams**

-There are four-unit exams and a comprehensive final exam. ALL EXAMS ARE TAKEN IN CLASS.

-There are no retakes on any of the exams, and there is only one attempt for each exam including the final exam

-To receive full credit on exam questions, show incremental, organized, and legible work, and techniques used to solve must come from the textbook and/or lecture using proper notation.

### **Determination of Course Grade/Detailed Grading Formula:**

- **Homework:** Homework assignments (exam reviews are included in this) will count as 10% of your final grade.
- **Quizzes:** Cumulatively, the quizzes will count as 10% of your final grade.
- **Unit Exams:** Each test will count as 16% of your grade.
- **Final Exam:** The comprehensive final exam will count as 16% of your grade.

**Final Average = .64(Exam AVG) +.16(Final Exam) +.10(Homework AVG) +.10(Quiz AVG)**

**Grading Scale:** The course grade will be determined using the following scale:

Grade A: Final Average [89.5, 100]

Grade B: Final Average [79.5, 89.5)

Grade C: Final Average [69.5, 79.5)

Grade D: Final Average [59.5, 69.5)

Grade F: Final Average [0, 59.5)

*Your overall average/grade will be located in you MML Course. We will NOT be using the BB gradebook to keep up with your overall average.*

**Late Work, Make-Up, and Extra-Credit Policy:**

**-Due Dates** The homework for the sections that we cover during the week will be due on Sunday. However, if we cover a section on Monday and the exam is Wednesday, that homework and review will be due Tuesday by 11:59PM. The homework for the sections that are covered after the exam will be due on Sunday by 11:59PM. ***It is your responsibility to look at the course calendar located in the syllabus frequently, so you do not miss any due dates.***

**-Due dates for homework WILL NOT be extended.** Homework worked after the due date will receive a 20% deduction on all problems worked after the due date. You'll be able to work on past due homework until the exam date.

-As a general rule, there are no make-up exams. *Make-up exams will only be allowed under extenuating circumstances. If you need to miss an exam, you must petition the instructor **before** the due date. If you do not reach out prior to the exam, an extension will not be granted. **Only extenuating circumstances of a serious nature that are documented will be considered such as a death in the family or hospitalization.** Realize not being prepared for the exam is not a legitimate reason for a make-up exam. **No one will be permitted to take more than one make-up exam. All other missed chapter tests will be assigned a zero, and the zero(s) will be used to calculate final grade in course.***

**-There is no extra credit for this course.**

### **Additional Policies**

#### **Productive Workplace**

Students are expected to bring all tools necessary for success to class every day. These tools include writing implements, notebook/notebook paper and an approved calculator. All other items (back packs, purses, bags, etc.) must be placed either on the floor between your feet. Your cell phone is to be placed on SILENT (NOT VIBRATE) and placed in your purse, backpack, or pocket. It is not to be out during class. ***Having a cell phone out during class is an interruption to the learning environment for your classmates, yourself, and the instructor.***

#### **Testing Policy**

Prohibited devices include, but are not limited to:

- Cell phones; smart phones; smart watches

- Audio players/recorders, tablets, laptops, notebooks, or any other personal computing devices
- Separate timers
- Cameras or any other photographic equipment
- Any devices, including digital watches, that can be used to record, transmit, receive, or play back audio, photographic, text, or video content

If your device makes a sound or is in your possession when the device goes off, you may be dismissed and your score may be recorded as a zero. **If you leave the classroom at any time during an exam, the exam must be submitted for grading.** If you are not feeling well, let me know in advance of distributing the exam and the exam will be given one page at a time. Therefore, it is strongly advised that students take care of all personal business prior to entering the classroom to take an exam.

**Attendance Policy:** Students at COM are expected to participate every week for which they are registered. Per COM policy, students are required to log on to their course at least twice per week, but it may be necessary to log on more times each week to complete the assignments required of this course. When students are not actively participating (e.g., contributing to discussions and completing weekly online homework), the faculty member can initiate an instructor drop and, subsequently, the student will receive a **W** for the course.

**Communicating with your instructor: *ALL electronic communication with the instructor must be through your COM email.*** Due to FERPA restrictions, faculty cannot share any information about performance in the class through other electronic means.

#### Student Learner Outcomes

Student Learner Outcome	Assessed via this Assignment	Maps to Core Objective	Assessed via this Assignment
1. Explain the use of data collection and statistics as tools to reach reasonable conclusions	Quiz 1		
2. Recognize, examine, and interpret the basic principles of describing and presenting data	Quiz 1	Empirical and Quantitative Skills (EQS)	Question on Exam 1
3. Compute and interpret empirical and theoretical probabilities using the rules of probabilities and combinatorics	Quiz 3	Critical Thinking Skills (CT)	Question on Exam 2
4. Explain the role of probability in statistics	Quiz 3		
5. Examine, analyze, and compare various sampling distributions for both discrete and continuous random variables	Quiz 4		
6. Describe and compute confidence intervals	Quiz 5		
7. Solve linear regression and correlation problems	Quiz 2		
8. Perform hypothesis testing using statistical methods	Quiz 6		

**Academic Dishonesty:** College of the Mainland is committed to a high standard of academic integrity. All students are responsible for honesty and independent effort. Incidents of academic and scholastic dishonesty (including cheating, plagiarism, and collusion) will be dealt with in a manner that is consistent with College Policy and the Student Conduct. Any student found to have been academically dishonest on an assignment, quiz, or exam will receive a zero for that assignment, quiz, or exam, and he or she will be referred to the Office of Student Conduct for further disciplinary action. Please read the section on Standards of Student Conduct and Discipline and Penalties in the online Student Handbook.

**Student Concerns:** If you have any questions or concerns about any aspect of this course, please contact me using the contact information previously provided. If, after discussing your concern with me, you continue to have questions, please contact Mr. Leslie Richardson, Math Department Chair, at (409) 933-8329 or at [lrichardson@com.edu](mailto:lrichardson@com.edu).

**Course Outline:**

Week	Assignment	Due Date (by 11:59PM)
1 Aug. 23-29	<i>Orientation-M</i> 1.1 Introduction to the Practice of Statistics-M 1.2 Observational Studies versus Designed Experiments-W 1.3 Simple Random Sampling-W	Aug 29 <sup>th</sup>
2 Aug. 30 - Sept 5	1.4 Other Effective Sampling Methods-M 1.5 Bias in Sampling-M 1.6 The Design of Experiments-W 2.1 Organizing Qualitative Data-W	Sept 5 <sup>th</sup>
3 Sept. 6-12 Sept. 6-Holiday	2.2 Organizing Quantitative Data: The Popular Displays-W 2.3 Additional Displays of Quantitative Data-W 2.4 Graphical Misrepresentations of Data-W <b>Quiz 1 (1.1-1.6, 2.1-2.4) – SLO 1 and 2</b>	Sept 12 <sup>th</sup>
4 Sept. 13-19	3.1 Measure of Central Tendency-M 3.2 Measures of Dispersion-M/W 3.3 Measures of Central Tendency and Dispersion from Grouped Data-W	Sept 19 <sup>th</sup>
5 Sept. 20-26	3.4 Measures of Dispersion and Outliers-M 3.5 The Five-Number Summary Boxplots-M/W <i>Review for Exam 1-W</i>	Sept 26 <sup>th</sup>
6 Sept. 27 – Oct 3	<b>Exam 1 (1.1-1.6, 2.1-2.4, 3.1-3.5)-Sept 27<sup>th</sup> -M</b> 4.1/4.2 Scatter Diagrams, Correlation, Coefficient of Determination, & Least Squares Regression-W <b>Quiz 2 (4.1-4.2) – SLO 7</b>	<b>Exam 1-9/27-M</b> Oct 3 <sup>rd</sup>
7 Oct. 4-10	5.1 Probability Rules-M 5.2 The Addition Rule and Complements-M/W 5.3 Independence and the Multiplication Rule-W	Oct 10 <sup>th</sup>
8 Oct. 11-17	5.4 Conditional Probability and the General Multiplication Rule-M 5.5 Counting Techniques-W <b>Quiz 3 (5.1-5.5) – SLO 3 and 4</b>	Oct 17 <sup>th</sup>
9 Oct 18-24	6.1 Discrete Random Variables-M 6.2 The Binomial Probability Distribution-M/W <i>Review for Exam 2-W</i>	Oct 24 <sup>th</sup>

10 Oct 25-31	<b>Exam 2 (4.1, 4.2, 5.1-5.5, 6.1, 6.2)- Oct 25<sup>th</sup>-M</b> 7.1 Properties of Normal Distribution-W 7.2 Applications of Normal Distribution-W <b>Quiz 4 (6.1, 6.2, 7.1, 7.2) – SLO 5</b>	<b>Exam 2-10/26-T</b>  Oct 31 <sup>st</sup>
11 Nov. 1-7	8.1 Distribution of the Sample Mean-M 8.2 Distribution of the Sample Proportion-M/W 9.1 Estimating a Population Proportion-M	Nov 7 <sup>th</sup>
12 Nov. 8-14	9.2 Estimating a Population Mean-M <b>Quiz 5 (9.1, 9.2) – SLO 6</b> <i>Review for Exam 3-M</i> <b>Exam 3 (7.1, 7.2, 8.1, 8.2, 9.1, 9.2)- Nov 10<sup>th</sup>-W</b>	Nov 9 <sup>th</sup>  <b>Exam 3-11/10-W</b>
13 Nov. 15-21	10.1 The Language of Hypothesis Testing-M 10.2 Hypothesis Tests for a Population Proportion-M/W 10.3 Hypothesis Tests for a Population Mean-W	Nov 21 <sup>st</sup>
14 Nov. 22-28 <b>Holiday: Nov 25-27</b>	11.1 Inference about Two Population Proportions-M 11.2 Inference about Two Means: Dependent Samples-M/W 11.3 Inference about Two Means: Independent Samples-W	Nov 28 <sup>th</sup>
15 Nov. 29 – Dec. 5	11.3 Inference about Two Means: Independent Samples-M <b>Quiz 6 (10.1-10.3, 11.1-11.3) – SLO 8</b> Review for Exam 4-M <b>Exam 4 (10.1-10.3, 11.1-11.3)-Dec 3<sup>rd</sup>-W</b>	Dec 4 <sup>th</sup> <b>Exam 4-12/3-W</b>
16 Dec. 6-10	Final Exam Review-M <b>Final Exam-Dec 10<sup>th</sup> -W</b>	<b>Final Exam-12/9-Th</b>

**Census Date: Sept 8<sup>th</sup>**

**Drop Date: Nov 19<sup>th</sup>**

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### Institutional Policies and Guidelines

**Grade Appeal Process:** Concerns about the accuracy of grades should first be discussed with the instructor. A request for a change of grade is a formal request and must be made within six months of the grade assignment. Directions for filing an appeal can be found in the student handbook. <[https://build.com.edu/uploads/sitecontent/files/student-services/Student\\_Handbook\\_2019-2020v5.pdf](https://build.com.edu/uploads/sitecontent/files/student-services/Student_Handbook_2019-2020v5.pdf)>. *An appeal will not be considered because of general dissatisfaction with a grade, penalty, or outcome of a course. Disagreement with the instructor's professional judgment of the quality of the student's work and performance is also not an admissible basis for a grade appeal.* [https://build.com.edu/uploads/sitecontent/files/student-services/Student\\_Handbook\\_2019-2020v5.pdf](https://build.com.edu/uploads/sitecontent/files/student-services/Student_Handbook_2019-2020v5.pdf)

**Academic Success & Support Services:** College of the Mainland is committed to providing students the necessary support and tools for success in their college careers. Support is offered through our Tutoring Services, Library, Counseling, and through Student Services. Please discuss any concerns with your faculty or an advisor.

**ADA Statement:** Any student with a documented disability needing academic accommodations is requested to contact Holly Bankston at 409-933-8520 or [hbankston@com.edu](mailto:hbankston@com.edu). The Office of Services for Students with Disabilities is located in the Student Success Center.



**Counseling Statement:** Any student needing counseling services is requested to please contact Holly Bankston in the student success center at 409-933-8520 or [hbankston@com.edu](mailto:hbankston@com.edu). Counseling services are available on campus in the student center for free and students can also email [counseling@com.edu](mailto:counseling@com.edu) to set up their appointment. Appointments are strongly encouraged; however, some concerns may be addressed on a walk-in basis.

**Textbook Purchasing Statement:** A student attending College of the Mainland is not under any obligation to purchase a textbook from the college-affiliated bookstore. The same textbook may also be available from an independent retailer, including an online retailer.

**Withdrawal Policy:** Students may withdraw from this course for any reason prior to the last eligible day for a “W” grade. Before withdrawing students should speak with the instructor and consult an advisor. Students are permitted to withdraw only six times during their college career by state law. The last date to withdraw is March 3rd for the 1st 8-week session, April 26 for the 16-week session, and May 5th.

**F<sub>N</sub> Grading:** The F<sub>N</sub> grade is issued in cases of *failure due to a lack of attendance*, as determined by the instructor. The F<sub>N</sub> grade may be issued for cases in which the student ceases or fails to attend class, submit assignments, or participate in required capacities, and for which the student has failed to withdraw. The issuing of the F<sub>N</sub> grade is at the discretion of the instructor. The last date of attendance should be documented for submission of an F<sub>N</sub> grade.

**Early Alert Program:** The Student Success Center at College of the Mainland has implemented an Early Alert Program because student success and retention are very important to us. I have been asked to refer students to the program throughout the semester if they are having difficulty completing assignments or have poor attendance. If you are referred to the Early Alert Program you will be contacted by someone in the Student Success Center who will schedule a meeting with you to see what assistance they can offer in order for you to meet your academic goals.

**COVID-19 Statement:** All students, faculty, and staff are expected to familiarize themselves with materials and information contained on the College of the Mainland’s Coronavirus Information site at [www.com.edu/coronavirus](http://www.com.edu/coronavirus). In compliance with Governor Abbott's May 18 Executive Order, face coverings/masks will no longer be required on COM campus. Protocols and college signage are being updated. We will no longer enforce any COM protocol that requires face coverings. We continue to encourage all members of the COM community to distance when possible, use hygiene measures, and get vaccinated to protect against COVID-19. Please visit [com.edu/coronavirus](http://com.edu/coronavirus) for future updates.

### **Tips for Success**

1. Believe that you can be successful!
2. Treat this class as if it were your full-time job.
3. Schedule your study time and be diligent with it.
4. Attend each and every class period being punctual and attentive in class.
5. Participate in class in a nondisruptive manner.
6. Read the section before coming to class.
7. Do all the homework (online and textbook problems) assigned and additional problems if needed.
8. Work on the homework problems the same day as the lecture.
9. See a tutor or instructor before the next class period for the problems that cannot be completed.
10. Review sections that have already been completed after the assigned homework has been finished.
11. Complete the test review sheet(s) before class.
12. Complete the chapter test(s), review the completed homework for that specific test, and work additional problems in a random order from the sections.
- 13. Avoid procrastinating and complete assignments quickly as unforeseen problems may arise. Honor yourself...BE THE BEST YOU CAN BE!**