



Math 1332.102CL
Quantitative Reasoning
Fall 2021
STEAM Bldg., Room 103
M/W: 2:00-3:20 pm

Instructor Information: Mrs. Allison

Email: tallison@com.edu

*Include your **course & section** in the subject line when emailing.*

Office phone: 409-933-8369, 1-888-258-8859 extension 8369

Student Hours (Office Hours); Location: STEAM 325-12

1. 11:45 am – 12:15 pm; Mon-Thurs.
2. 3:30-4:00 pm, Monday/Wednesday
3. 1:30-3:30 pm, Tuesday

Student Hours (VIRTUAL Office Hours); Location: via Microsoft Teams Meetings:

2:00-4:30pm, Thursday

(Schedule an appointment using, <https://calendly.com/tallison-math/30min>)

-Make an appointment for a 30-minute session via **Calendly** to meet during my virtual office hours (You are not required to stay the whole 30 minutes if you do not need it.)

-There will be a link in your calendar to join the session via Teams once you sign up for a session via Calendly.

Required Textbook/Materials

1. A Survey of Mathematics With Applications, 10th edition with integrated review, by Angel, Abbot, and Runde, Pearson Education, 2017 (*The etext is available through MyMathLab.*)
2. Access to a desktop computer or laptop and internet service are required to gain access to the required online assignments. Some devices like iPads/tablets, Chromebooks, and cellphones present problems with gaining access to online *My Math Lab* assignments.
3. *MyMathLab (MML)* software is required for this class. Make sure you use your COM email when registering for *MML* otherwise the account will become inactive since all email communication must be through COM email. You can gain access to *MML* for a few days using temporary access, but you must gain permanent access in *MML* immediately once this has ended, using the **same account**, for grades to count toward your final grade in the course. **Go to your Blackboard (BB) course and locate the BB Coursework category then click on MyMathLab link to register for MML.**
4. A graphing or scientific calculator is needed for this course.
5. A free PDF converter app or a printer that can scan documents is needed to submit some assignments/scratch work, etc.

Course Description: Topics include introductory treatments of sets and logic, financial mathematics, probability and statistics with appropriate applications. Number sense, proportional reasoning, estimation, technology, and communication will be embedded throughout the course.

Course requirements:

My Math Lab (MML) Online Assignments:

The *My Math Lab* software is packaged with the textbook or can be purchased online with a credit card or PayPal. Once you gain access, you are required to successfully complete an online orientation within MML before the online assignments will appear. MML assignments include homework and several online quizzes, and the deadlines for each are provided within MML. The online homework includes homework from each section and test reviews. To help you be better prepared for a testing environment, most study aids are not available for *MyMathLab* homework test reviews. If you do not have a permanent *My Math Lab* access code by Test 2, problems completed with a temporary access code will not count towards your final grade. This means your recorded homework grade/online quizzes will be zero.

MML Online Quizzes:

Online quizzes must be completed in one sitting and are timed. You cannot exit the quiz and come back to it as you can do with homework. When you have answered all the questions, the quiz will be graded online, and your grade will be posted to your gradebook. To see your gradebook, click on the Gradebook button and you can see the scores for all assignments attempted as well as your current average. You can retake each online quiz once to improve your score if the deadline is met **AND** a score of at least 75 is obtained on the sections covered on the quiz. When a quiz is retaken, the higher quiz grade is used in calculating your overall average. Reviewing a submitted online quiz is only available immediately after submitting.

MyMathLab (MML) Homework – Go to your Blackboard (BB) course and locate the BB Coursework category then click on MyMathLab link to register for MML.

There is an assigned homework for each section.

1. After registering in MML, you can log into *My Math Lab* through Blackboard or www.pearsonmylabandmastering.com
 - Click the Log In button and enter your Login Name and Password
 - Click on the appropriate class
 - Click on HOMEWORK/ASSIGNMENTS button and then the homework assignment you wish to do.
2. To help you be better prepared for a testing environment, most study aids are not available for *MyMathLab* homework test reviews.
3. Enter your answers then click the CHECK ANSWER button.
4. If needed, click the SIMILAR EXERCISE button to redo the exercise.
Note: You should strive to score at least 80% before moving on to the next section.
5. If the submitted answer is correct, click on the SAVE button to send your results to the gradebook. Your grade will show up in the GRADEBOOK and will be automatically accessible by your instructor.
6. Click on the next question to continue.

Please note that personal computer problems do not excuse the requirement to complete all coursework in a timely and satisfactory manner. If at any time you experience technical problems with your *My Math Lab* account, please contact Pearson's Customer Technical Support.

Other Homework Assignments:

Other homework assignment(s) 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. 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.

Exams:

Four tests plus a comprehensive final will be given. To receive credit for problems, work provided on the tests/quizzes must justify answers using incremental steps. Tests and quizzes must be finished within the allotted time. Due to departmental policies, you are not allowed to complete tests in a testing facility beyond the allotted class time. There are no retakes on any of the exams. Quizzes can be announced or unannounced and will consist of information contained in homework, textbook, and/or class lectures.

Being able to use a computer and gain access to the internet is necessary to complete the required online assignments and to have access to test reviews.

Determination of Course Grade/Grading Formula

Homework Average	10%
Quiz Average	10%
Chapter Test Average	64%
Final Exam	16%

(Retaking the placement test does not affect your grades in this course. Your grade will be based on the information outlined above.)

Grading Scale

Grade A: Final average of 90 through 100

Grade B: Final average of 80 through 89

Grade C: Final average of 70 through 79

Grade D: Final average of 60 through 69

Grade F: Final average below 60

Late Work, Make-Up Policy, & Extra-Credit Policy

Homework- Start on your assignments early to have enough time to practice, study, learn the information, and meet deadlines. In some situations, depending on how close the *MyMathLab* homework deadline is to the exam, you can work past the deadline with a 20% penalty. *Only rework or do problems that were not completed successfully by the deadline, because the 20% penalty applies to any problem worked after the deadline. Work problems in the IMPROVE GRADE mode, not REVIEW mode. The REVIEW mode will not change your grade for the section.* This is not a self-paced class, so deadlines are put into place to assist you with an appropriate pace to promote a productive learning environment.

Other Homework Assignments- The deadline for each homework 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 homework assignment grade.

Quizzes- You cannot make up a quiz. Also, outside assignments may be given for a quiz grade. A specified deadline will be given, and you will not be allowed to submit late. If the quiz assignment is not submitted or is not submitted by the deadline, a grade of zero will be recorded for the quiz assignment grade.

Tests- As a general rule, there are no make-up exams. A make-up exam will only be allowed at the discretion of the instructor and only under extenuating circumstances and is usually limited to one make-up exam. If it is necessary to miss an exam, petition the instructor **before** the exam is

given to be considered for a make-up exam. Only extenuating circumstances of a serious nature that are documented will be considered. Realize not being prepared for the exam is not a legitimate reason for a 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.**

This course mostly likely will not have any extra credit, so practice, study adequately, learn the information, and meet deadlines for the assignments you do have.

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 would suggest logging in each day to complete the necessary assignments on time. In addition to time spent in doing homework, taking quizzes and exams it will be necessary to study, using the course materials, at least 4 hours per week to be successful in the class. ***If some of the 1332 homework assignments have not been attempted before Friday, August 27 an Early Alert referral will be submitted. You risk being dropped from the class if you have not completed assignments within 10 calendar days or have missed taking an exam without prior approval by instructor or extenuating circumstances. Review information contained under make-up policy.***

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 will respond to your email as quickly as possible (usually within 24 hours). *I recommend downloading the Outlook app on your smartphone for easy access to COM email and to check your COM email at LEAST once per day.*

General Education Core Objectives

This course will address the following core objectives:

- **Critical Thinking Skills:** to include creative thinking, innovation, inquiry, analysis, evaluation and synthesis of information;
- **Communication Skills:** to include effective development, interpretation and expression of ideas through written, oral and visual communication;
- **Empirical and Quantitative Skills:** to include the manipulation and analysis of numerical data or observable facts resulting in informed conclusions.

Student Learner Outcomes	SLO assessed via this assignment	SLO maps to Core Objective	Core Objective assessed via this assignment
1. Apply the language and notation of sets.	Quiz 1	Critical Thinking Skills (CT)	Question on Test 1
2. Determine the validity of an argument or statement and provide mathematical evidence.	Quiz 2		
3. Solve problems in mathematics of finance.	Quiz 6	Communication Skills (CS)	Question on Test 4
4. Demonstrate fundamental probability/counting techniques and apply those techniques to solve problems.	Quiz 3		

5. Interpret and analyze various representations of data.	Quiz 4	Empirical and Quantitative Skills (EQS)	Question on Test 3
6. Demonstrate the ability to choose and analyze mathematical models to solve problems from real-world settings, including, but not limited to, personal finance, health literacy, and civic engagement.	Quiz 5		

The Core Objective Communication Skills will be assessed this semester.

Academic Dishonesty: College of the Mainland is committed to a high standard of academic integrity. All students are responsible for honesty and independent effort. Any student found to have been academically dishonest on an assignment, quiz or exam will receive a zero for that assignment without the option to retake and the zero(s) will be used in the overall calculations at the end of the semester.

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 lrichardson@com.edu.

Additional Policies

Productive Workplace

Students are expected to bring all tools necessary for success to class every day. These tools include writing implements, notebook/note paper, and an approved calculator. Food and drinks are not allowed in classrooms. All other items (backpacks, purses, bags, laptops, etc.) must be placed between your feet. In addition, headsets/wireless earbuds are to be placed in your backpack, etc. before class starts.

Classroom Conduct Policy

College of the Mainland requires that students enrolled at COM be familiar with the Standards of Student Conduct, which can be found in the on-line Student

Handbook, <http://www.com.edu/student-services/student-handbook.php>. Students are expected to be familiar with and abide by the Student Code of Conduct. Any breaches of the Code of Conduct will result in a referral to the Office for Student Conduct and may result in dismissal from this class. Arriving on time, staying the entire class period, eliminating distractions like cell phones, using appropriate language (no cursing), respecting your classmates and the instructor, and cleaning up after yourself, are all expectations for students in the classroom. Please abide by these expectations so that the class setting is enjoyable for all students.

Regarding cell phones, they should be turned off or set on airplane mode and in your backpack/purse (not on your desk).

It is extremely disruptive to the learning environment, so you will be asked to leave if it is a continuous problem. Infractions may result in an automatic withdrawal from the class. Cell phones **cannot** be used during tests or quizzes and refer to testing policies for additional information. Please notify me before class if you have an emergency that requires you to answer your phone during class. Take an emergency phone call outside of the classroom.

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.

Tentative Course outline:

Week & Date	Sections Covered		Due
Week 1 Aug. 23, 25	<i>MyLab Math Orientation – 90% required to gain access to homework.</i>		
	2.1 Set Concepts	Aug. 23	Aug. 28
	2.2 Subsets	Aug. 25	Aug. 28
Week 2 Aug. 30, Sept. 1	2.3 Venn Diagrams and Set Operations	Aug. 30	Sept. 4
	2.4 Venn Diagrams with Three Sets and Verification of Equality of Sets	Aug. 30	Sept. 4
	2.5 Application of Sets	Sept. 1	Sept. 4
	Quiz 1 (Section 2.5)	9/1-9/4	
Week 3 Sept. 6, 8	3.1 Statements and Logical Connectives	Sept. 6	Sept. 11
	3.2 Truth Tables for Negation, Conjunction and Disjunction	Sept. 8	Sept. 11
Week 4 Sept. 13, 15	3.3 Truth Tables for Conditional and Biconditional	Sept. 13	Sept. 18
	3.4 Equivalent Statements	Sept. 13	Sept. 18
	Quiz 2 (Sections 3.2 - 3.4)	9/14-9/18	
	Review for Exam 1	Sept. 15	Sept. 19
Week 5 Sept. 20, 22	Exam 1 (Sections 2.1 - 3.4)	Sept. 20	
	11.1 Empirical and Theoretical Probability	Sept. 22	Sept. 25
	11.2 Odds	Sept. 22	Sept. 25
Week 6 Sept. 27, 29	11.3 Expected Value	Sept. 27	Oct. 2
	11.4 Tree Diagrams	Sept. 27	Oct. 2
	11.5 OR & AND Problems	Sept. 29	Oct. 2
Week 7 Oct. 4, 6	11.6 Conditional Probability	Oct. 4	Oct. 9
	Review for Exam 2	Oct. 6	Oct. 10
Week 8 Oct. 11, 13	Exam 2 (Sections 11.1 - 11.6)	Oct. 11	
	11.7 The Counting Principle and Permutations	Oct. 13	Oct. 16
Week 9 Oct. 18, 20	11.8 Combinations	Oct. 18	Oct. 23
	11.9 Solving Probability by Using Combinations	Oct. 20	Oct. 23
	Quiz 3 (Sections 11.1, 11.5 - 11.9)	10/20-10/23	
Week 10 Oct. 25, 27	12.2 Frequency Distributions & Statistical Graphs	Oct. 25	Oct. 30
	12.3 Measures of Central Tendency	Oct. 25	Oct. 30

	Quiz 4 (Section 12.2)	10/26-10/30	
	12.4 Measures of Dispersion	Oct. 27	Oct. 30
Week 11 Nov. 1, 3	Review for Exam 3	Nov. 1	Nov. 2
	Exam 3 (Sections 11.7-11.9, 12.2 – 12.4)	Nov. 3	
Week 12 Nov. 8, 10	6.2, 6.3, 6.10 Formulas, Applications of Algebra, Functions and Their Graphs	Nov. 8	Nov. 13
	6.10 Functions and Their Graphs	Nov. 10	Nov. 13
	10.1 Percent	Nov. 10	Nov. 13
Week 13 Nov. 15, 17	10.2 Personal Loans and Simple Interest	Nov. 15	Nov. 20
	10.3 Compound Interest	Nov. 15	Nov. 20
	10.3 Compound Interest	Nov. 17	Nov. 20
	10.4 Installment Buying	Nov. 17	Nov. 20
	Quiz 5 (Sections 10.1 - 10.3, 6.10)	11/17-11/20	
Week 14 Nov. 22, 24	10.5 Buying a House with a Mortgage	Nov. 22	Nov. 24
	Quiz 6 (Sections 10.2 - 10.5)	11/22-11/28	
	Review for Exam 4	Nov. 24	Nov. 28
Week 15 Nov. 29, Dec. 1	Exam 4 (Sections 10.1 – 10.5)	Nov. 29	
	Review for Final Exam	Nov. 29	Dec. 4
Week 16 Dec. 6	Final Exam (Comprehensive)	Dec. 6	

PLEASE NOTE: The syllabus is subject to change at the discretion of the instructor.

Census Day – September 8, 2021

W-Day – November 19, 2021

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. *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.

Academic Success & Support Services: College of the Mainland is committed to providing students the necessary support and tools for success in their college career. 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. The Office of Services for Students with Disabilities is located in the Student Success Center.

Counseling Statement: Any student that is needing counseling services is requested to please contact Holly Bankston in the student success center at 409-933-8520 or hbankston@com.edu. Counseling services are available on campus in the student center for free and students can also email counseling@com.edu to setup their appointment.

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 only permitted to withdraw six times during their college career by State law. The last day to withdraw is November 19, 2021.

F_N Grading: The F_N grade is issued in cases of *failure due to a lack of attendance*, as determined by the instructor. The F_N 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_N grade is at the discretion of the instructor. The last date of attendance should be documented for submission of an F_N grade.

Early Alert Program: The Student Success Center at College of the Mainland has implemented an Early Alert Program because student success and retention is 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. 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.