



**Math 1332.152**  
**Contemporary Mathematics**  
**Spring 2022**  
**1:30pm – 2:50pm, T & Th Steam 103**

**Instructor Information:** Alan Bigos, [abigos@com.edu](mailto:abigos@com.edu), 409-933-8327

**Student hours and location:** 325-16 Steam

M&W: 11:00 – 12:15pm

T&Th: 3:00 – 4:35pm

F: 9:00 – 10:50am

**Required Textbook/Materials:** A Survey of Mathematics With Applications, 10th edition, by Angel, Abbot, and Runde, Pearson Education, 2017. The homework and quizzes as well as the e-text and videos for this course are on line at [mymathlab.com](http://mymathlab.com). The access code for MyMathLab may be purchased with the textbook or may be purchased separately.

**Student Downloads:** Additional material (handouts, etc.) can be found in the Student Downloads folder on the One Drive. There are 2 ways to access this folder. Option 1: Click on the link in MML. (For security purposes, it may ask you for your come email and login.) Option 2: Log in to Office 365 on the COM website. Go to the One Drive and click on the shared tab.

**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:**

Four regular Tests

Comprehensive final exam

Online Homework Assignments (My Math Lab)

Online Quizzes (My Math Lab)

Written Assignments

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Written Assignments

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

The Tests will be written exams, which require complete, well-reasoned solutions written in detail; this means you must show all steps and proper work, or you will not be given credit for an answer. During Testing situations, make sure that all unnecessary items are put away. No backpacks or books on the desks. Make sure the proctor has a clear line of sight. Spread out. When possible, one student per table.

**Final Exam**

The Final Exam will be a comprehensive multiple-choice exam. You should still organize your thoughts and show (on scratch paper) all steps needed, to work the problems correctly. Standard testing rules still apply.

**Online Homework**

The homework assignments appear in My Math Lab. After material is covered in class, you will have a maximum of 3 days to complete the related homework for full credit. You have unlimited tries to get every question right. You should begin the assignments as soon as possible after the material is covered in class. Although the homework is online, you should write out your work and put it in your notebook so you can study from it later. 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 will be zero.

**MyMathLab Quizzes:** There are 4 timed quizzes which roughly cover the first half of the material found on each upcoming test. They are to be done online at [mymathlab.com](http://mymathlab.com). To take a quiz, you must first unlock it by completing at least 70% of the homework from the related sections. If your recorded score is below 70% due to late penalties, email me when you have completed 70% of the problems and I will manually unlock it. **If you do not unlock a quiz before the deadline, it will be recorded as zero.** You can take each quiz two times before the deadline. The higher score counts towards your final grade. The deadline for quizzes is usually 10 days after we finish covering the related material in class.

### Accessing MyMathLab:

1. Log into My Math Lab:
  - a. Go to [www.pearsonmylabandmastering.com](http://www.pearsonmylabandmastering.com)
  - b. Click the Login button and enter your Login Name and Password
  - c. Click on the appropriate class: **bigos07815**
  - d. Click on HOMEWORK button and then the homework assignment you wish to do.
2. Use the "Show Me How" aids when needed and complete the homework assignment.
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 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.
7. If your score does not save properly, send me an email indicating the specific question and section number with a picture of your written work attached.

### Written Assignments

It is essential that you can communicate mathematics in a non-verbal format. The Tests require you to communicate detailed steps written in an organized format. MyMathLab assignments do not give you practice with this very important skill. The written assignments provide you the opportunity to practice and develop these skills before you need to demonstrate them on Tests.

There will be 4 groups of written assignments, one for each regular Test. Written assignments are due at the beginning of class on the day of the associated test. You will be given a Written Assignment coversheet indicating the assigned problems and any special instructions before they are due. On test days, you will hand in your Written Assignments with the coversheet filled in. Written Assignments will be largely self-graded. Each problem is worth 1 point. To receive credit, you must write the original problem, show sufficient work, and arrive at a clearly stated answer. Count the number of problems which you think should receive credit for and put the number in the appropriate part of the coversheet. Do this for each section that was assigned. Be

sure to note any missing problems. The instructor will spot-check the sections. If there are more points recorded for a section than the instructor feels are appropriate, no points from that section will count.

### **Class Participation**

To maximize learning, students must be actively engaged in the classroom. Staring at the board doesn't cut it. You need to be listening to the discussion, taking notes, asking questions, and helping to maintain a learning atmosphere. Some specific behaviors that we are trying to avoid are "tuning out", not taking notes, and playing with your phone. When you are in class but not participating, you are communicating to the other students that they are wasting their time. That means that you are not only hurting yourself but others as well.

### **Grading Scale:**

The following weighting system will be used to determine your overall average.

<b>Comprehensive Final Exam</b>	<b>15%</b>
<b>Regular Exams</b>	<b>60%</b>
<b>MyMathLab Homework</b>	<b>10%</b>
<b>Quizzes</b>	<b>5%</b>
<b>Written Assignments</b>	<b>10%</b>

Your letter grade will be determined by your overall average using the following scale.

Grade A: Final Average is [89.5, 100]

Grade B: Final Average is [79.5, 89.5)

Grade C: Final Average is [69.5, 79.5)

Grade D: Final Average is [59.5, 69.5)

Grade F or Fn: Final Average is [0, 59.5)

**Grade I:** Given unforeseen circumstances that result in the inability to successfully complete the course objectives, an I-Contract can be requested from the instructor assuming you meet the following criteria:

1. Have a passing overall average (70 or higher)
2. All work completed except for The Final.

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

**Grade W:** If you drop the class after census day, your official grade will be W, regardless of how much of the coursework has been completed. Keep in mind that if you drop a class that is linked to another, you will be dropped from both.

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

Each class meeting is a unique experience involving interaction with other students and cannot be recreated. In-class participation cannot be made up. You are still responsible for what was covered. If you are unable to attend class, you will need to talk with another student or meet with the instructor (in person or virtually) outside of class. Obviously, not everyone will be able to have perfect attendance, for whatever reason. Just be aware that if you are not in the classroom, additional effort will be needed to stay caught up.

All work other than the final must be completed by the day before the scheduled Final. Students will be allowed to substitute 1 low test score with their Final Exam score. **There are no retakes.**

Homework Assignments: You may continue to work on homework assignments after the deadline. Problems from regular homework assignments completed after the deadline will have their scores reduced by 10% for each day late. **You will need to type in the password “late” to gain access to homework problems after the deadlines.** Homework assignment deadlines will be adjusted at the end of the semester. You will have to manually open each assignment to remove any previous late penalties.

Written Assignments: The maximum possible score on a written assignment set will be lowered by 10% for each class meeting that the set is not turned in. Students who complete the online course evaluation will be allowed to resubmit one Written Assignment Set with a due date of the class meeting before the final.

Online Quizzes: Quizzes not taken by the due date will have their first attempt scored as zero. Quizzes will be reopened at the end of the semester for students that have not yet used their second attempt. You will still need to meet the minimum homework scores to unlock quizzes.

Tests: Officially, there are no makeup tests. If you can provide documentation for special circumstances, we can explore options. Students who complete the online course evaluation will have 2 points added to their score on Test 4.

**The deadline for completing all work (other than the final) is the day before The Final.**

**Attendance Policy:**

Students at COM are expected to attend and participate in every session of all classes for which they are registered. Regular attendance is a critical component to being successful in courses. Students should consult with their instructors when it becomes necessary to miss a class. Students are required to attend all classes. College of the Mainland recognizes no excused absences other than those prescribed by law.

You cannot make-up classes, and it is your responsibility to be punctual and regularly attend class. It is in your best interest to attend all classes, be punctual, and not leave early. It is extremely difficult to succeed in this course without having good attendance.

To receive credit for attendance you must be in the classroom for the majority of the designated time and sign the attendance sheet for the appropriate time slot. Being in the tutoring or testing area does not count as being in class. Remember, it is your responsibility to sign in. You are still responsible for all the material covered whether you are in class or not.

Due to social distancing, a seating chart will be maintained. Students are expected to use the same seat for the semester. The seating chart will be updated as needed.

If you arrive late, please quickly and quietly take your seat and get set up so that you can begin participating in class.

**Communicating with your instructor:** ALL electronic communication with the instructor must be through your COM email. You should also use your COM email when you register for MML. Due to FERPA restrictions, faculty cannot share any information about performance in the class through other electronic means.

<b>Student Learner Outcomes</b>	<b>SLOs Assessment</b>	<b>Maps to Core Objective</b>	<b>Core Objective Assessment, when assessed</b>
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		

**Academic Dishonesty:** Any incident of academic dishonesty will be dealt with in accordance with college policy and the Student Handbook. Academic dishonesty – such as cheating on exams is an extremely serious offense and will result in a **grade of zero** on that exam and the student will be referred to the Office of Student Conduct for the appropriate disciplinary action.

**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 Leslie Richardson at 409-933-8329 or lrichardson@com.edu.

**Course outline:** This course loans the first 2 weeks to Math 0306.152. Time from the last 2 weeks of that course is returned to Math 1332.152, so that the total time for each course is correct.

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This is a tentative schedule. As the semester progresses, adjustments may be needed.

Week	Day	Sections Covered	Due Date
3	2/1	Introduction	
	2/3	2.1 Set Concepts 2.2 Subsets	2-4 2-6
4	2/8	2.3 Venn Diagrams and Set Operations	2-11
	2/10	2.4 Venn Diagrams with Three Sets and Verification of Equality of Sets	2-13
5	2/15	2.5 Application of Sets <b>Quiz 1 (Section 2.5, SLO 1)</b> <b>-will not appear until unlocked</b> <b>(70% in each assignment is required to unlock)</b>	2-18 <b>2-25</b>
	2/17	3.1 Statements and Logical Connectives	2-20
6	2/22	3.2 Truth Tables for Negation, Conjunction, and Disjunction	2-25
	2/24	3.3 Truth Tables for the Conditional and Biconditional (start)	
		3.3 Truth Tables for the Conditional and Biconditional (finish)	2-27
		3.4 Equivalent Statements <b>Quiz 2 (Section 3.2, 3.3, 3.4, SLO 2) -will not appear until unlocked</b> <b>(70% in each assignment is required to unlock)</b>	<b>3-6</b>
7	3/1	11.1 Empirical and Theoretical Probabilities	3-4
	3/3	Test 1 Review <b>TEST 1 (CH. 1&amp;2)- Written Assignment 1 due</b>	3-2
8	3/8	11.2 Odds	3-11
		11.3 Expected Value	3-12
	3/10	11.4 Tree Diagrams 11.5 OR and AND Problems	3-13 3-14
	3/15	SPRING BREAK	



9	3/22	11.6 Conditional Probability	3-25
		11.7 The Counting Principle and Permutations	3-26
	3/24	11.8 Combinations	3-27
		Test 2 Review	3-28
10	3/29	<b>Test 2 (11.1 – 11.6) Written Assignment Set 2 Due</b>	
	3/31	11.9 Solving Probability Problems by Using Combinations	4-3
		<b>Quiz 3 (Section 11.1, 11.5, 11.6, 11.7, 11.8, 11.9, SLO 4) -will not appear until unlocked (70% in each assignment is required to unlock)</b>	<b>4-10</b>
		11.10 Binomial Probability Formula	4-4
11	4/5	12.2 Frequency Distributions and Statistical Graphs	4-8
		<b>Quiz 4 (Section 12.2, SLO 5) -will not appear until unlocked (70% in each assignment is required to unlock)</b>	<b>4-15</b>
	4/7	12.3 Measures of Central Tendency	4-10
		12.4 Measures of Dispersion	4-11
12	4/12	6.2 Formulas	4-21
		Test 3 Review	4-13
	4/14	<b>Test 3 (12.2 – 12.4) Written Assignment Set 3 Due</b>	
13	4/19	6.3 Applications of Algebra	4-21
		6.10 Functions and Their Graphs	4-21
	4/21	10.1 Percent	4-24
		10.2 Personal Loans and Simple Interest	4-25
14	4/26	10.3 Compound Interest	4-29
		<b>Quiz 5 (Section 10.1, 10.2, 10.3, 6.10, SLO 6) -will not appear until unlocked (70% in each assignment is required to unlock)</b>	<b>5-6</b>
		10.4 Installment Buying	4-30
	4/28	10.5 Buying a House with a Mortgage	5-1
		<b>Quiz 6 (Section 10.2, 10.3, 10.4, 10.5, SLO 3) -will not appear until unlocked (70% in each assignment is required to unlock)</b>	<b>5-8</b>
		Test 4 Review	5-4
15	5/3	Review	
	<b>5/5</b>	<b>Test 4 (6.2 – 10.5) Written Assignment Set 4 Due</b>	
16	5/10	Review for the Final	5-11

*The syllabus is subject to change at the discretion of the instructor.*

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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 from the 1<sup>st</sup> 8-week session is March 2. The last date to withdraw from the 16-week session is April 25. The last date to withdraw for the 2<sup>nd</sup> 8-week session is May 4.

**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.