



**MATH 1324.304CL**  
**Mathematics for Business & Social Sciences**  
**Fall 2021**  
**MTWRF 9:38-10:30 am**

**Instructor Information:** Angela Molen, amolen@fisdk12.net, 281-482-3413 ext. 3660

**Office hours and location:** by request (after school)

**Required Textbook:** Finite Mathematics with Applications, twelfth edition, by Lial, Hungerford, Holcomb, and Mullins

**Course Description:** The application of common algebraic functions, including polynomial, exponential, logarithmic, and rational, to problems in business, economics, and the social sciences are addressed. The applications include mathematics of finance, including simple and compound interest and annuities; systems of linear equations; matrices; linear programming; and probability, including expected value.

**Course requirements:**

**Homework Assignments**

There is assigned homework for each section to be done online using MyMathLab. They are due one week after the date assigned. Any late homework can be completed by the quiz or test date for a 20% reduction.

**Quizzes and Exams**

There are four quizzes to be done online using MyMathlab. You need to show work on paper that will be turned in to the instructor. You can retake each quiz just once to improve your score; the highest score will be the one that counts. There will be one algebra review exam, four chapter exams and a comprehensive final. There are no retakes on any of the exams.

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

The course grade will be determined by the following formula:

$$\text{Final Average} = 64\% \text{ Chapter Exam Average} + 16\% \text{ Final Exam} + 10\% \text{ Homework Average} + 10\% \text{ Quiz Average}$$

**Grading Scale:**

- Grade A: Final Average in [89.5, 100]
- Grade B: Final Average in [79.5, 89.5)
- Grade C: Final Average in [69.5, 79.5)
- Grade D: Final Average in [59.5, 69.5)
- Grade F: Final Average in [0, 59.5)

**Make-Up Policy:** If you are unable to make a scheduled chapter exam, you will be allowed to make up the exam outside of class **provided you notify the instructor prior to the exam and have a legitimate reason for the absence.**

**Attendance Policy:** Attendance and classroom participation is required. Excessive absenteeism may result in a student being withdrawn from the course. More than three absences is considered excessive.

**Tardiness Policy:** Excessive tardiness may result in a student being withdrawn from the course.

Student Learner Outcomes	Maps to Core Objective	Assessed via this assignment
1. Solve mathematics of finance problems, including the computation of interest, annuities, and amortization of loans.	Empirical and Quantitative Skills (EQS)	Exam
2. Apply basic matrix operations, including linear programming methods, to solve application problems.	Critical Thinking Skills (CT)	Exam
3. Demonstrate fundamental probability techniques and application of those techniques, including expected value, to solve problems.	Visual Communication Skills (CS)	Exam
4. Apply matrix skills and probability analyses to model applications to solve real-world problems.	Critical Thinking Skills (CT)	Quiz

**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 Handbook. 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 sections on *Standards of Student Conduct and Discipline and Penalties* in the on-line Student Handbook.

**Plagiarism:**

To plagiarize means to take someone else's ideas and present them as if they are yours. Turning in another student's work with or without their knowledge is an example of plagiarism. It is academically dishonest to engage in plagiarism. If you plagiarize then you will receive a zero for the assignment.

**Link(s) to resource(s) about ways to avoid plagiarism:**

<http://en.writecheck.com/ways-to-avoid-plagiarism/>

**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 [lrichardson@com.edu](mailto:lrichardson@com.edu).

**Course Outline:****DC Math for BSS: 1<sup>st</sup> 9 Weeks Calendar 2021-2022**

Monday	Tuesday	Wednesday	Thursday	Friday
August 16  <i>Teacher Inservice Day</i>	August 17  <i>First Day of School</i>	August 18  Algebra Review	August 19  Lab Day	August 20  Algebra Review
August 23  Lab Day	August 24  Quiz 1 (Ch. 3)	August 25  Algebra Review	August 26  Algebra Review	August 27  Lab Day
August 30  Exam 1 (Ch. 3 & 4)	August 31  Exam 1 (Ch. 3 & 4)	September 1  Finance 1	September 2  Lab Day	September 3  Finance 2
September 6  Lab Day	September 7  Finance 3	September 8  Lab Day	September 9  Linear Algebra 1	September 10  Lab Day

September 13 <b>Quiz 2 (Ch. 5)</b>	September 14 Linear Algebra 2	September 15 Lab Day	September 16 Linear Algebra 3	September 17 Lab Day
September 20 <i>Professional Development Day</i>  (NO SCHOOL)	September 21 Linear Algebra 4	September 22 Lab Day	September 23 Linear Algebra 5	September 24 Lab Day
September 27  Review	September 28 <b>Exam 2 (Ch. 5 &amp; 6)</b>	September 29 <b>Exam 2 (Ch. 5 &amp; 6)</b>	September 30 Linear Programming 1	October 1 Lab Day
October 4 Linear Programming 2	October 5 Lab Day	October 6 Probability 1 Part 1	October 7 Lab Day	October 8 <b>Quiz 3 (Ch. 7)</b>
October 11 Probability 1 Part 2	October 12 Lab Day	October 13 <i>PSAT Day</i>	October 14 Probability 2 Part 1	October 15 Lab Day

### DC Math for BSS: 2<sup>nd</sup> 9 Weeks Calendar 2020-2021

Monday	Tuesday	Wednesday	Thursday	Friday
October 18 Probability 2 Part 2	October 19 Lab Day	October 20 Probability 3 Part 1	October 21 Lab Day	October 22 Probability 3 Part 2
October 25 Lab Day	October 26 Probability 3 Part 3	October 27 Lab Day	October 28 Review	October 29 Review
November 1 <i>Professional Development Day</i>  (NO SCHOOL)	November 2 <b>Exam 3 (Ch. 7 &amp; 8)</b>	November 3 <b>Exam 3 (Ch. 7 &amp; 8)</b>	November 4 Counting, Permutations, Combinations 1	November 5 Lab Day

November 8 Counting, Permutations, Combinations 2	November 9 Lab Day	November 10 <b>Quiz 4 (Ch. 9)</b>	November 11 Probability & Statistics 1	November 12 Lab Day
November 15 Probability & Statistics 2	November 16 Lab Day	November 17 Probability & Statistics 3	November 18 Lab Day	November 19 Probability & Statistics 4
November 22 <i>Thanksgiving Break!</i>	November 23 <i>Thanksgiving Break!</i>	November 24 <i>Thanksgiving Break!</i>	November 25 <i>Thanksgiving Break!</i>	November 26 <i>Thanksgiving Break!</i>
November 30 Lab Day	December 1 Review	December 2 Review	December 3 <b>Exam 4 (Ch. 9 &amp; 10)</b>	December 4 <b>Exam 4 (Ch. 9 &amp; 10)</b>
December 7 Review	December 8 Review	December 9 <b>Final Exam</b>	December 10 <b>Final Exam</b>	December 11 <i>Study Hall</i>
December 13 <i>Study Hall</i>	December 14 <i>Study Hall</i>	December 15 <i>Study Hall</i>	December 16 <i>Study Hall</i>	December 17 <i>Study Hall (½ Day)</i>

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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> 5-week summer session is July 2. The last date to withdraw from the 10-week summer session is August 2. The last date to withdraw for the 2<sup>nd</sup> 5-week summer session is August 6.

**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.