INSTRUCTOR INFORMATION
Ladan Scott
Office Location: Brookhaven College Room K216
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Email Address: lscott@dcccd.edu
Campus Office Hours: MW 9:00am – 10:30am, TR 10:30am – 11:30am

TEXT: Finite Mathematics with Applications in the Management, Natural, and Social Sciences, 11th edition Lial, Hungerford, Holcomb and Mullins
ISBN: 0321946561

SOFTWARE: In this course, we will use a software program called MyMathLab, which can be accessed via the Internet. You will use this program to complete all required homework, quizzes, tests, and final exam. The web address for MyMathLab is http://www.pearsonmylabandmastering.com. To enroll into MyMathLab you will need a course ID, which is scott59223.

You can buy standalone MyMathLab access code with the e-book at Brookhaven College Bookstore.

IMPORTANT NOTICE
Purchase of a MyMathLab access code is required! It is not optional. You may obtain a temporary code, good for 14 days. You must purchase a permanent code before your 14 days runs out.
In order to be certified for attendance for this class, you must enroll and complete the Orientation Homework in MyMathLab by February 2.

CATALOG DESCRIPTION
This is a Texas Common Course Number. This is a Core Curriculum course selected by the colleges of DCCCD.
Prerequisite: This is an entry-level course and is open to any student meeting TSI standards of college readiness (student must have appropriate assessment test score or have successfully completed DMAT 0310).
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. (3 Lec.)
This course is the prerequisite for MATH 1325.

STUDENT LEARNING OUTCOMES
Upon successful completion of this course, students will:
1. Apply elementary functions, including linear, quadratic, polynomial, rational, logarithmic, and exponential functions to solving real-world problems.
2. Solve mathematics of finance problems, including the computation of interest, annuities, and amortization of loans.
3. Apply basic matrix operations, including linear programming methods, to solve application problems.
4. Demonstrate fundamental probability techniques and application of those techniques, including expected value, to solve problems.

5. Apply matrix skills and probability analyses to model applications to solve real-world problems.

MATH 1324 is a Tier I course in the Quantitative Reasoning learning category. Knowledge and skills that are important to your success in other college courses will be introduced and reinforced in Tier I. The Quantitative Reasoning category promotes the application of mathematics to increase your ability to solve “real-world” problems. When you are quantitatively literate, you can use logic and critical thinking in new way. www.dcccd.edu/core

CORE OBJECTIVES

MATH 1324 is part of the Mathematicas Foundational Component Area 020.

i) Courses in this category focus on quantitative literacy in logic, patterns, and relationships.

ii) Courses involve the understanding of key mathematical concepts and the application of appropriate quantitative tools to everyday experience.

iii) MATH 1324 develops the following Core Objectives:

**Critical Thinking (CT)** - to include creative thinking, innovation, inquiry, and analysis, evaluation and synthesis of information

**Communication (COMM)** - to include effective development, interpretation and expression of ideas through written and visual communication

**Empirical and Quantitative Skills (EQS)** - to include the manipulation and analysis of numerical data or observable facts resulting in informed conclusions

MATH 1324 develops Critical Thinking, Communication, and Empirical and Quantitative Skills by requiring students to solve and analyze applications of various functions to management, economics, and business.

You need plug-ins and players, such as Adobe® Acrobat® Reader and RealPlayer®, to use the multimedia content inside your course. If you experience technical problems while using MyMathLab, you may contact Technical Support at (800) 677-6337.

CALCULATOR REQUIREMENT

TI Graphing calculator required. TI-84 PLUS calculator recommended. NO TI-89 OR TI-92 OR TI-NSPIRE.

CONTACTING YOUR INSTRUCTOR

Please make sure that you have updated your email address in eConnect and MyMathLab. I will periodically send out group emails to the class and will use one of these systems. Your main communication with your instructor will be via email. To ensure that you receive a prompt response, **when emailing your instructor, please be sure to include your name somewhere in the body of the email, and write the course for which you are enrolled (MATH 1324) and the section number in the subject line of all email correspondences**, I should respond to your email within 24 hours Monday through Thursday. If I don’t respond to your email within 48 hours (Monday – Thursday) then please call my office number (972-860-4679) and leave a message. Emails sent on Friday, Saturday, or Sunday will be answered by Monday of the following week.

ANNOUNCEMENTS

Announcements will be posted regularly by the instructor. All students are responsible for checking announcements that will be posted on the Announcements page in the MyMathLab classroom. These
announcements may contain review material, reminders, updates, and other important information that you will find necessary and useful for the course.

**VIEWING LESSONS AND COMPLETING ASSIGNMENTS**

Under the Course Menu, you will find a tab entitled, “Multimedia Library”. The Multimedia Library has several resources for your course, such as the Multimedia Textbook, Video, Interactive Figure, Activity, Learning Activity, Extra Help, and Power Point.

The class will work in the following way.

**STEP 1:** Read the appropriate section in the multimedia textbook.

**STEP 2:** Watch the video for that section.

**STEP 3:** Do the assigned homework under the button “Assignments and Tests”. I highly recommend that you achieve a score of 70% or better on each homework assignment before you move on to the next assignment. Achieving this score will ensure that you have mastered enough of the material to understand and do well on the next section. **You may improve your homework grades through, May 11 by 11:59 pm.**

**TAKE THE ONLINE TEST.** Click on the button “Assignments and Tests” on the course menu. You will select the current test that you will be taking. **You have 240 minutes to take your test in one attempt. You are not allowed to get in and out of your test (you cannot access any other screens – ebook, homework, etc.) while you are taking the test. No make-up tests and extension on deadline will be given, a missed test is a zero grade. It is your responsibility to have a reliable computer with a reliable browser and all the proper plug-ins.**

**TAKE THE ONLINE FINAL EXAM.** The comprehensive final exam has 30 multiple choice questions. You will have 240 minutes to take the final exam in one sitting. **The same rules apply as for the tests.**

**EVALUATION PROCEDURES:** Assessment of your performance will be based upon scores from homework assignments, tests, and the final exam. Your final grade will be based upon the following scale:

<table>
<thead>
<tr>
<th>Component</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Homework Assignments</td>
<td>16%</td>
</tr>
<tr>
<td>Tests (4 tests, 16% each)</td>
<td>64%</td>
</tr>
<tr>
<td>Final Exam</td>
<td>20%</td>
</tr>
</tbody>
</table>

The Final Exam score may replace the lowest test score for Tests 2, 3, or 4. The grade on Test 1 (chapters 3 & 4) cannot be replaced. No make-up tests will be given and there will be no extensions of deadlines unless arrangements are made prior to the test deadline.

Averages are interpreted as follows:

- A : 90 – 100%
- B : 80 – 89%
- C : 70 – 79%
- D : 60 – 69%
- F : less than 60%

Incomplete grades are given when unforeseen emergency prevents a student from completing the work in a course. The division Dean must approve all “I” grades.

**HELP AND AVAILABLE RESOURCES:** Brookhaven College has free tutoring available in The Hub, which is located in S251.
INSTITUTIONAL POLICIES: Institutional Policies of Brookhaven College may be found at the following link:
https://www.Brookhavencollege.edu/syllabusaddendum

The institutional policies covered are:
Drop/Withdrawal Policy
Six Drop Rule
Repeating this Course
Financial Aid Statement
Financial Aid Certification of Attendance
International Students
Religious Holidays
ADA Statement
Academic Integrity
Grade Reports
Family Educational Rights and Privacy Act (FERPA)
Institutional Equity
Instructors Right to Modify

IMPORTANT DATE
The last day to withdraw from the course with a” W” is April 16, 2020. Students sometimes drop a class when help is available that would enable them to continue. Please discuss your plans with the instructor if you feel you need to withdraw.

IMPORTANT NOTE
We, the Math Department of BHC, take issues of dishonesty very seriously. If a student is caught violating any policy of the Testing Center, or an instructor’s own policy for their particular class, the following consequences will be enforced: The minimum penalty a student will receive is a zero for the assignment/exam and the maximum penalty will be to receive an F for the course and/or academic suspension.

As with any online course, you are expected to do your own work. By starting the work in this course you are agreeing to follow the honor system. Any indication that you are being dishonest will result in taking your tests at the Brookhaven College Testing Center, receiving an F for the course and/or academic suspension. This is at the instructor’s discretion.

COURSE SCHEDULE
This course starts on January 21, 2020 and ends on May 12, 2020. The last day to drop this course with a “W” is April 16, 2020.
The following is a timeline for the course. These deadlines must be followed very closely. No extensions will be given. All exams may be taken on or before the required date. Exams will not be accepted after the given deadline. All homework, tests and final exam are due on the due date by 11:59 pm. All tests and final exam are timed and must be completed in one sitting once they are started. You cannot save and return.
<table>
<thead>
<tr>
<th>WEEK</th>
<th>SECTION(S)</th>
<th>DEADLINE(S)</th>
<th>CALCULATOR OPERATIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Week 1 1/21/20</td>
<td>Buy MyMathlab and get all plug-ins set up READ syllabus  3.1: Functions  3.2: Graphs of functions (omit step-functions) (omit stretching, shrinking, symmetry, even &amp; odd)</td>
<td>3.1, 3.2 homework due by Sunday, 1/26/20</td>
<td>GRAPH, WINDOW, TRACE, ZOOM, ZERO, TABLE, VALUE</td>
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<tr>
<td>Week 2 1/26/20</td>
<td>3.3: Applications of linear functions  3.4: Quadratic functions (omit completing the square) and applications (omit quadratic models &amp; regression)</td>
<td>3.3, 3.4 homework due by Sunday, 2/2/20</td>
<td>POLYROOTFINDER</td>
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<tr>
<td>Week 3 2/2/20</td>
<td>3.5: Polynomial functions (omit polynomial models)  3.6: Rational functions</td>
<td>3.5, 3.6 homework due by Sunday, 2/9/20</td>
<td>MAXIMUM, MINIMUM</td>
</tr>
<tr>
<td>Week 4 2/9/20</td>
<td>4.1: Exponential functions  4.2: Applications of exponential functions (omit exponential regression)</td>
<td>4.1, 4.2 homework due by Sunday, 2/16/20</td>
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<tr>
<td>Week 5 2/16/20</td>
<td>4.3: Logarithmic functions (omit change of base)  4.4: Logarithmic &amp; exponential equations</td>
<td>4.3, 4.4 homework due by Sunday, 2/23/20</td>
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<td></td>
<td>Practice Test 1  Test 1 (Ch 3 &amp; 4)</td>
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<td><strong>Take Test 1 by Tuesday, 2/25/20</strong></td>
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<tr>
<td>Week 6 2/23/20</td>
<td>5.1: Simple interest (omit discount)  5.2: Compound Interest</td>
<td>5.1, 5.2 homework due by Sunday, 3/1/20</td>
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<tr>
<td>Week 7 3/1/20</td>
<td>5.3: Annuities, future value, sinking funds  5.4: Annuities, present value &amp; amortization</td>
<td>5.3, 5.4 homework due by Sunday, 3/8/20</td>
<td>TVMSOLVER (<a href="http://www.tvmcalcs.com">www.tvmcalcs.com</a>)</td>
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<td></td>
<td>Practice Test 2  Test 2 (Ch 5)</td>
<td></td>
<td><strong>Take Test 2 by Tuesday, 3/10/20</strong></td>
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<tr>
<td>Week 9 3/22/20</td>
<td>6.4: Basic matrix operations  6.5: Matrix products and inverses  6.6: Applications of matrices (omit code theory, routing)</td>
<td>6.4, 6.5, 6.6 homework due by Sunday, 3/29/20</td>
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<td>Week 10 3/29/20</td>
<td>7.2: Linear programming-graphical method 7.3: Applications of linear programming</td>
<td>7.2, 7.3 homework due by Sunday, 4/5/20</td>
<td>SIMULTEQNSOLVER, INTERSECT</td>
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<td>Week 11 4/5/20</td>
<td>7.4: The Simplex Method:Maximization 7.5: Maximization Applications</td>
<td>7.4, 7.5 homework due by Sunday, 4/12/20</td>
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<tr>
<td>Practice Test 3</td>
<td>TEST 3 (Ch 6 &amp; 7)</td>
<td>Take Test 3 by Tuesday, 4/14/20</td>
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<tr>
<td>Week 12 4/12/20</td>
<td>8.3: Introduction to Probability 8.4: Basic Concepts of Probability</td>
<td>8.3, 8.4 homework due by Sunday, 4/19/20</td>
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<td>NOTE - The last day to drop the course is 4/16/20.</td>
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<td>Week 15 5/3/20</td>
<td>Practice Test 4 Test 4 (Ch 8 &amp; 9)</td>
<td>Take Test 4 by Tuesday, 5/5/20</td>
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<td>Take Core Assessment Quiz (Prerequisite for Final Exam)</td>
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<td>Due by Thursday, 5/7/20</td>
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<td>Week 16 5/10/20</td>
<td>Note: Homework improvements must be made by 5/11/2020 at 11:59. Practice Final Exam Final Exam (comprehensive)</td>
<td>Take Final Exam by Tuesday, 5/12/20</td>
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Please note that the instructor reserves the right to modify this course schedule, assignments, grading procedures, and other related policies as circumstances so dictate. Students will be notified via email of any changes that are to be made.