MATH 1332: Contemporary Math (Quantitative Reasoning)
Brookhaven College

Instructor Information
Name: K. Long
DCCCD Email: klong@dccc.edu
Office Phone: Will provide as needed
Office Location: Not on campus for Winter Term
Office Hours: NA will respond to emails 2-3 times per day
Division Office and Phone: Science, Mathematics, and Engineering.
Room K224. 972-860-4750

Course Information
Course Title: Contemporary Math (Quantitative Reasoning)
Course Number: MATH 1332
Section Number: 22401
Semester/Year: Winter 2019-2020
Credit Hours: 3
Class Meeting Time/Location: INET
Certification Date: Tuesday, December 17, 2019

Last Day to Withdraw: Monday, January 6, 2020. A student is responsible for withdrawing from a course. Please talk to your Instructor, Advisor, Veteran’s Affairs Official and Financial Aid Official, as appropriate, before making the decision to withdraw from any course.

Course Prerequisites
Prerequisite Required College level ready in Mathematics at the non-algebra or algebra levels.

Course Description
Course Description: Intended for Non STEM (Science, Technology, Engineering, and Mathematics) majors. Topics include introductory treatments of sets and logic, financial mathematics, probability and statistics with appropriate applications. Number sense, proportional reasoning, estimation, technology, and communication should be embedded throughout the course. Additional topics may be covered. (3 Lec.)
Student Learning Outcomes
Upon successful completion of this course, students will:
1. Apply the language and notation of sets.
2. Determine the validity of an argument or statement and provide mathematical evidence.
4. Demonstrate fundamental probability/counting techniques and apply those techniques to solve problems.
5. Interpret and analyze various representations of data.
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.

Texas Core Objectives
The College defines essential knowledge and skills that students need to develop during their college experience. These general education competencies parallel the Texas Core Objectives for Student Learning. In this course, the activities you engage in will give you the opportunity to practice two or more of the following core competencies:

1. **Critical Thinking Skills** - to include creative thinking, innovation, inquiry, and analysis, evaluation and synthesis of information
2. **Communication Skills** - to include effective development, interpretation, and expression of ideas through written, oral, and visual communication
3. **Empirical and Quantitative Skills** - to include the manipulation and analysis of numerical data or observable facts resulting in informed conclusions
4. **Teamwork** - to include the ability to consider different points of view and to work effectively with others to support a shared purpose or goal
5. **Personal Responsibility** - to include the ability to connect choices, actions, and consequences to ethical decision-making
6. **Social Responsibility** - to include intercultural competence, knowledge of civic responsibility, and the ability to engage effectively in regional, national, and global communities
Required Course Materials


**ISBN** 9780135222249

This course will run using interactive software called MyMathLab. MyMathLab is an online, textbook-based software where you will complete assignments. Students must have access to a computer with Internet to complete the required work for this course. Standard plug-ins are needed to access this tool. To access MyMathLab click the following link: [MyMathLab](#).

To enroll into your MyMathLab course you will need a course ID which will be given to you by your instructor. You can request temporary access but will only have access from the first day of the semester through day 14. After this point, you must enter a valid MyMathLab student access code. If the access code is not entered by that day, access to all online assignments will be suspended. Students should have permanent access to MyMathLab by the end of the first test.

If you purchase your MyMathLab code online you MAY have the option of purchasing a 10 or an 18 week subscription. You MUST purchase the 18 week subscription so that you will have access to your assignments for the entire 16 week semester.

Note: A student of this institution is not under any obligation to purchase a textbook from a university-affiliated bookstore. The same textbook may also be available from an independent retailer, including an online retailer.

Calculator: A TI30XS Multiview calculator will be used in this course. It is required that a student purchase the calculator or be proficient in the use of fractions on a scientific calculator of your choice.

**Hardware and Software Requirements for My Math Lab**

**Operating Systems and Browsers:** To work successfully with MyMathLab, your computer must match one of the supported browser and operating system (OS) configurations. Most MyMathLab courses support either Windows® or Macintosh® operating systems and a supported version of Microsoft Internet Explorer®, Firefox®, or Safari®. Other requirements vary, depending on the textbook in use for the course. Note that these requirements are only for MyMathLab itself. Players or plug-ins may have their own system requirements.
Browser Settings: Pop-up windows must be allowed. If you are using a browser that offers pop-up control or are running an add-on program to control pop-ups, you may need to take steps to allow pop-ups in order to use some features on the site. Session cookies must be enabled. In most browsers, you can enable cookies for selected domains. JavaScript must be enabled.

Players and Plug-Ins: The Browser Check utility will tell you whether or not the necessary players and plug-ins are present on your computer and, when they are present, whether they are up to date. It will also allow you to download the latest versions of the players and plug-ins. (Note that in some courses, the Browser Check may be referred to as the Installation Wizard. Clicking the "Installation Wizard" link will open the Browser Check.)

It's best to run the Browser Check or Installation Wizard from inside your MyMathLab course. When you sign into your course, you will see a Browser Check or Installation Wizard link on the Announcements page. You may need to restart your computer when you finish the download and installation.

If you experience technical problems while using MyMathLab, you may contact Technical Support at 1-800-677-6337, Monday – Friday 6am – 7pm CDT and Sunday 3pm – 10pm. For your convenience, visit Pearson 24/7 website for technical assistance, 24 hours a day, 7 days a week at Pearson Technical Support.

Course Procedures and Policies

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 1332) and the section number (22401) in the subject line of all email correspondences. I should respond to your email within 24 hours Monday through Friday. If I don’t respond to your email within 24 hours (Monday – Friday) then please resend your email. Emails sent Friday after 5:00pm - Sunday will be answered by Monday of the following week.

ATTENDANCE/PARTICIPATION: You will NOT be certified as attending class if you have not enrolled into MyMathLab and completed MML orientation, 1.1-1.3 assignments, and Quiz #1, by Monday, December 16th at 11:59 pm. If you are unable to purchase the MML access code due to financial aid you may request a temporary code when you first log in. The code will allow you access for approximately 2 weeks, you will then be required to purchase the code to continue.
GOING TO CLASS: Viewing Lessons and Completing Assignments

The class will work in the following way.

Click on ASSIGNMENTS tab and then Show All. This will show you all the assignments and the due dates for the entire course. There are 6 types of assignments listed.

1. Video Assignments – Not Graded: These contain all the videos, PowerPoints, and textbook links for that section. This is your lecture for the section. You need to spend time watching the videos, reading the text/PowerPoint and taking notes. Once the due date has passed you may still access the video assignments since there is no grade given for these. You may also access this materials under the multimedia tab.

2. Homework Assignments – Graded: You may work each problem as many times as you wish. You may also utilize the “Question Help” button in the upper right corner. I highly recommend that you achieve a score of 80% 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. Once the due date has passed you will no longer be able to change your grade. You may still access the assignment by going into your “Gradebook” and clicking the “review” tab next to the assignment you want to review.

3. Quizzes – Graded: The Quizzes are designed to give you an idea as to how you will perform on the actual tests. If you take the Quiz and fail, you can expect to fail on the actual test, unless you do additional work. You may take each quiz twice prior to the deadline. After you take the quiz the first time review it to see what you need to study before taking it the second time. The highest grade of the two attempts will be used to calculate your quiz average. You have 45 minutes to complete each quiz. You may “review” your quiz the same way you review your homework assignments.

4. Test Reviews – Not graded: You may take the practice test only once. It will give you an indication as to how well you are prepared to take the actual test. After taking the practice test you may review the test and study any topic that you didn’t get correct. You may access the “Test Reviews” after the due date since these are not graded assignments.

5. Test – Graded: You may only take the test one time. All tests are password protected; the test passwords are in the Course Calendar. The course calendar can be found on the last 2 pages of this document. You have 120 minutes to take your test in one attempt. You are not allowed to get in and out of your test while you are taking the test. If you attempt to open up other windows or other browsers while taking the test, you will be locked out of the test. If you do have technical difficulty while taking a test, take a snapshot of the screen (CNTL PrintScrn) and send it to me via email along with the day/time that you were locked out. I will “enable access for you” so that you may go back in and complete the test provided proof of a technical problem. You can review your submitted test any time after submitting your test.

6. Final Exam – Graded: Same as taking a regular test. The final exam is a 33-question, multiple choice comprehensive final exam and you have 120 minutes to take your final exam in one sitting.
7. Any assignment not completed on or before the posted Due Date will be given the grade of 0.

8. I will give extensions to deadlines if the student request an extension prior to the due date. An extension should only be requested when a student has events, beyond their control, that prevents the student from completing their assignments on time. I reserve the right to deny the request if the student starts to abuse this privilege or starts to fall too far behind in class.

Graded Work
The tables below provide a summary of the graded work in this course and an explanation of how your final course grade will be calculated.

Summary of Graded Work

<table>
<thead>
<tr>
<th>Assignments</th>
<th>Points</th>
<th>Totals</th>
</tr>
</thead>
<tbody>
<tr>
<td>MyMathLab Homework</td>
<td>33 assignments worth 100 points each</td>
<td>15%</td>
</tr>
<tr>
<td>MyMathLab Quizzes</td>
<td>11 quizzes worth 100 points each</td>
<td>10%</td>
</tr>
<tr>
<td>Tests</td>
<td>4 tests worth 100 points each</td>
<td>60%</td>
</tr>
<tr>
<td>Final Exam</td>
<td>1 final worth 100 points</td>
<td>15%</td>
</tr>
</tbody>
</table>

**TOTAL: 100%**

Final Grade

<table>
<thead>
<tr>
<th>Points</th>
<th>Percentages</th>
<th>Letter Grade</th>
</tr>
</thead>
<tbody>
<tr>
<td>90-100</td>
<td>90-100%</td>
<td>A</td>
</tr>
<tr>
<td>80-89</td>
<td>80-89%</td>
<td>B</td>
</tr>
<tr>
<td>70-79</td>
<td>70-79%</td>
<td>C</td>
</tr>
<tr>
<td>60-69</td>
<td>60-69%</td>
<td>D</td>
</tr>
<tr>
<td>0-59</td>
<td>0-59%</td>
<td>F</td>
</tr>
</tbody>
</table>

Institutional Policies
Institutional Policies relating to this course can be accessed using the link below. These policies include information about tutoring, Disabilities Services, class drop and repeat options, Title IX, and more.

[Brookhaven Institutional Policies]
## Course Schedule

<table>
<thead>
<tr>
<th>Week</th>
<th>Topic</th>
<th>Assignments in MyMathLab</th>
<th>Due Dates</th>
</tr>
</thead>
</table>
| 12/13 to 12/21 | 1.1 Inductive and Deductive Reasoning  
1.2 Estimation, Graphs, and Mathematical Models  
1.3 Problem Solving  
4.1 Equations of lines and Modeling  
4.2 Number Bases in Positional Systems  
4.4 Looking Back at Early Numeration Systems  
5.1 Number Theory: Prime and Composite Numbers  
5.2 The Integers: Order of Operations  
5.3 The Rational Numbers  
5.6 Exponents and Scientific Notation | Orientation to MML  
1.1  
1.2  
1.3  
Quiz #1  
4.1  
4.2  
4.4  
Quiz #2  
5.1  
5.2  
5.3  
5.6  
Quiz #3  
Review Test #1  
Test #1 | MML Orientation, Chapter 1, and Quiz #1 must be completed by Monday 12/16 to be certified as attending class.  
Due Date for Test #1 is Saturday 12/21 |
| 12/22 to 12/28 | 8.1 Percent, Sales Tax, and Discounts  
8.3 Simple interest  
8.4 Compound Interest  
8.5 Annuities, methods of Savings, and Investments  
8.6 Cars  
8.8 Credit Cards | 8.1  
8.3  
8.4  
Quiz #4  
8.5  
8.6  
8.8  
Quiz #5  
Review Test #2  
Test #2 | Students are expected to take holiday plans into account. A student may work ahead as necessary to accommodate plans.  
Due Date for Test #2 is Saturday 12/28 |
| 12/29 to 1/4 | 2.1 Basic Set Concepts  
2.2 Subsets  
2.3 Venn diagrams and Set Operations  
2.4 Set Operations and Venn Diagrams With Three Sets  
2.5 Survey Problems  
3.1 Statements, Negations, and Quantified Statements | 2.1  
2.2  
2.3  
Quiz #6  
2.4  
2.5  
Quiz #7  
3.1 | Due Date for Test #3 is Saturday 1/4 |
<table>
<thead>
<tr>
<th>Week</th>
<th>Topic</th>
<th>Assignments in MyMathLab</th>
<th>Due Dates</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cont</td>
<td>3.2 Compound Statements and Connectives</td>
<td>3.2</td>
<td>Due Date for Test #3 is Saturday 1/4</td>
</tr>
<tr>
<td></td>
<td>3.3 Truth tables for the Negation, Conjunction, and Disjunction</td>
<td>3.3</td>
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<td></td>
<td></td>
<td>Quiz #8</td>
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<td></td>
<td></td>
<td>Review Test #3</td>
<td></td>
</tr>
<tr>
<td></td>
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<td>Test #3</td>
<td></td>
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<tr>
<td>1/5 to</td>
<td>11.1 The Fundamental Counting Principle</td>
<td>11.1</td>
<td>Last day to drop with a W is 1/6/20</td>
</tr>
<tr>
<td>1/11</td>
<td>11.4 Fundamentals of Probability</td>
<td>11.2</td>
<td>Due Date for Test #4 is Saturday 1/11</td>
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<tr>
<td></td>
<td>11.6 Events Involving Not and Or; Odds</td>
<td>11.6</td>
<td></td>
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<tr>
<td></td>
<td>11.7 Events Involving And; Conditional Probability</td>
<td>11.7</td>
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<tr>
<td></td>
<td>12.1 Sampling, Frequency Distributions, and Graphs</td>
<td>Quiz #9</td>
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<td></td>
<td>12.2 Measures of Central Tendency</td>
<td>12.1</td>
<td></td>
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<tr>
<td></td>
<td>12.3 Measures of Dispersion</td>
<td>12.2</td>
<td></td>
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<tr>
<td></td>
<td>12.4 The Normal Distribution</td>
<td>12.3</td>
<td></td>
</tr>
<tr>
<td></td>
<td>13.1 Voting Methods</td>
<td>12.4</td>
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<td></td>
<td>Quiz #10</td>
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<td></td>
<td></td>
<td>13.1</td>
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<td></td>
<td>Review Test #4</td>
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<tr>
<td></td>
<td></td>
<td>Test #4</td>
<td></td>
</tr>
<tr>
<td>1/12</td>
<td></td>
<td></td>
<td>Due Date for Final Exam is Sunday 1/12</td>
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<tr>
<td></td>
<td>Review for Final Exam</td>
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<tr>
<td></td>
<td>Final Exam</td>
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</tr>
</tbody>
</table>

**Testing Passwords and Deadlines**

<table>
<thead>
<tr>
<th>Test</th>
<th>Password</th>
<th>Deadline</th>
</tr>
</thead>
<tbody>
<tr>
<td>Test #1</td>
<td>Numbers</td>
<td>12/21/2019</td>
</tr>
<tr>
<td>Test #2</td>
<td>Finances</td>
<td>12/28/2019</td>
</tr>
<tr>
<td>Test #3</td>
<td>Thinking With Sets</td>
<td>01/01/2020</td>
</tr>
<tr>
<td>Test #4</td>
<td>Central Tendency</td>
<td>01/11/2020</td>
</tr>
<tr>
<td>Final Exam</td>
<td>Done</td>
<td>01/12/2020</td>
</tr>
</tbody>
</table>