CONTEMPORARY MATHEMATICS
MATH-1332-62430
Winter Term 2020
12/16/19 – 01/09/20

Professor: Dr. John Payne
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Office Number: W213
Office Hours: Contact via email
Meeting Days & Times: Online
Room Number: Online
Credit Hours: 3

Division: Science, Technology, Engineering, and Mathematics
Office Hours: M – F 8:00 am – 5:00 pm Office Phone: 214-860-8760 Office Number: W120

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.)

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

Web Based Course Materials Required:

Although the above includes an eText, I highly recommend a printed textbook. This can be purchased by clicking “Purchase Options” on the MML course menu and following the link to “MyPearsonStore.com”.

MML Access Code and Registration Information:
The information necessary to register with MML is located by following the MyMathLab link on the ecampus course menu. The Course ID is payne15836.

When registering with MML you must use the same name as that used when enrolling in the course with Mountain View College. Failure to follow these instructions may result in inaccurate grades being entered into your record and may go so far as to cause you to fail the course.

Acquiring Textbooks and MML Access Codes:
MyMathLab (MML) Registration opens on 12/09/19. It closes on 12/19/19. Failure to register by the end of the registration period will result in your being unable to complete the
course. MML contains an online textbook. It is accessible from the MML Main Menu under eText, Chapter Contents, and Multimedia Library. Pearson Publishing allows students temporary access by providing a 14-day free access period. Prior to the end of the temporary access period, you must purchase and register a valid access code, else the work you have completed will be lost.

**Communication with your Instructor:**
Instructor/Student communications will be conducted via email. To facilitate email communications, your email address must be current. To verify and/or update your email address, follow the instructions located on the “Start Here” page on eCampus. Click the “Personal Information on eCampus and Email Instructions” link then read and follow the instructions under “Sending an Email.”

*When sending an email, you must include your name, the course number and section number in the body of each email sent.* Failure to follow these procedures will most likely result in a delay in receiving a response or it may result in no response at all. Your emails will be answered within 48 hours of receipt during the week and 72 hours if the email is received on the weekend.

**Trouble Accessing MML:**
If you have trouble with MML contact me immediately. Describe the problem and send screen shots if available. I will take a look at the problem and advise you regarding the solution. If I cannot correct the issue, I will advise you to contact the MML Help Desk at 800.677.6337. There are also help topics available on the MML website. To review these help topics, click MyMathLab on the eCampus course menu then select “MML Help Topics” at the bottom of the page.

**Orientation Exercises:**
If you are unfamiliar with MML, I suggest that you complete the Answering Exercises Orientation in the Study Plan in MML. Access to the Study Plan is acquired from the main MML course menu. Answering Exercises Orientation should be the first item on the list. There are many other topics in the Study Plan. Using it during the length of the course is also an excellent way to learn the material. It is not part of your grade.

**Core Statement:**
MATH 1332 is a Tier 1 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 1. The Quantitative Reasoning category promotes the application of mathematics to increase your ability to solve “real-world” problem. When you are quantitatively literate, you can use logic and critical thinking in new ways.” - *Catalog of the Colleges of DCCCD*

**Core Objectives:**
MATH 1332 develops the following Core Objectives:
- **Critical Thinking** – to include creative thinking, innovation, inquiry, and analysis, evaluation and synthesis of information.
- **Communication** – to include effective development, interpretation and expression of ideas through written and visual communication.
- **Empirical and Quantitative Skills** – to include the manipulation and analysis of numerical data or observable facts resulting in informed conclusions.
Core Objective Development Statement:
MATH 1332 develops Critical Thinking, Communication, and Empirical and Quantitative Skills by requiring students to solve and analyze applications to at least one of the following: sets, logic, number systems, number theory, functions, probability and statistics.

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 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.

Course Outline:

<table>
<thead>
<tr>
<th>Chapter</th>
<th>Title</th>
<th>Sections</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Problem Solving and Critical Thinking</td>
<td>1, 2, 3</td>
</tr>
<tr>
<td>2</td>
<td>Set Theory</td>
<td>1, 2, 3, 4, 5</td>
</tr>
<tr>
<td>3</td>
<td>Logic</td>
<td>1, 2, 3</td>
</tr>
<tr>
<td>5</td>
<td>Number Theory and the Real Number System</td>
<td>1, 2, 3, 4, 5, 6</td>
</tr>
<tr>
<td>8</td>
<td>Personal Finance</td>
<td>1, 3, 4</td>
</tr>
<tr>
<td>9</td>
<td>Measurement</td>
<td>1, 2, 3</td>
</tr>
<tr>
<td>11</td>
<td>Counting Methods and Probability Theory</td>
<td>1, 2, 3, 4</td>
</tr>
<tr>
<td>12</td>
<td>Statistics</td>
<td>1, 2, 3</td>
</tr>
</tbody>
</table>

Attendance Policy:
This course is 100% online and therefore requires no physical classroom attendance. Each class participant is responsible for studying the material presented in MML. Although there is no physical attendance required, there is an attendance requirement. Students must participate in the class by 12/18/19. To qualify, students must register with MyMathLab. Failure to participate will result in you being certified as non-attending with all the associated ramifications of that certification, not the least of which is forfeiture of financial aid. For more information concerning financial aid requirements go to https://www.dcccd.edu/pc/fa/awarding/pages/enrollment.aspx.

Homework and Quizzes:
Each chapter is divided into sections as noted in the “Course Outline” in this syllabus. Each section comprises a homework assignment. There is one quiz per chapter. Both the homework and quiz due dates are listed in a table on the next page and are found on MyMathLab to the left of the assignment. Additionally, they coincide with the test due dates listed in the table.
under Tests. If student progress is less than deemed appropriate, intermediate due dates will be set to keep students moving through the course. Both the homework assignments and quizzes may be worked repeatedly until the due date has passed. You must make a minimum of 80% on each homework assignment before you will be allowed to take the associated quiz.

**Tests:**
There are four semester tests and a comprehensive final exam in this course. These will be completed using MML. In order to access the tests, you must score a minimum of 70% on each quiz associated with the test for which access is desired. The following table lists the chapters covered on each test.

<table>
<thead>
<tr>
<th>Tests</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>Final Exam</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chapters</td>
<td>1, 2</td>
<td>3, 5</td>
<td>8, 9</td>
<td>11, 12</td>
<td>All</td>
</tr>
<tr>
<td>Due Dates</td>
<td>12/22/19</td>
<td>12/28/19</td>
<td>01/03/20</td>
<td>01/09/20</td>
<td>01/09/20</td>
</tr>
</tbody>
</table>

Two attempts will be allowed on each test. All tests will be taken online and will have a time limit.

**Late Submission of Assignments:**
Each assignment has a due date. Assignments will be accepted after the assigned due date but at a reduced value; homework 20% penalty, quizzes and tests 30% penalty. All assignments may be accessed until the end of the course.

**Semester Grade Calculation:**
The average of all the homework assignments, as well as the quiz average, will count as test grades. Your semester grade will include your homework average, quiz average, the three best chapter test scores (the lowest chapter test score will be dropped), and the score on the final exam. The following example will help explain the grading system.

<table>
<thead>
<tr>
<th>Homework Average</th>
<th>Chapter Quiz Average</th>
<th>Chapters Test Scores</th>
<th>Final Exam</th>
</tr>
</thead>
<tbody>
<tr>
<td>100</td>
<td>100</td>
<td>80, 85, 75, and 90</td>
<td>85</td>
</tr>
</tbody>
</table>

The 75 would be dropped and the remaining five scores averaged. Your semester average would be 90.

**Grading Scale:**
A = 90-100, B = 80-89, C = 70-79, D = 60-69, F = 59 or less

**Posting of Grades:**
The official grades for this course will be posted on eCampus. At the end of each test cycle, your grades will be manually transferred from MML to eCampus. A final posting and accuracy check will occur at the end of the semester. The grades are retained in MML as well, but the averages listed there are not the same as those on eCampus. You may track your progress by calculating your current average using the information in this syllabus found in the paragraph titled **Semester Grade Calculation.**
Incomplete Grade Contracts:
Your inability to complete the course due to situations involving extreme illness or circumstances beyond your control may make you eligible for an Incomplete Grade Contract. You must request an Incomplete Grade Contract and show cause why you should receive an incomplete grade no later than 01/06/20. The circumstances preventing you from completing the course must have commenced after 01/04/20. Documentary evidence of the circumstances preventing you from completing the course must be submitted with the request.

Tutoring:
Math tutoring is available to DCCCD students. A link to tutoring information is found on the eCampus course menu under Resources.

Disclaimer Reserving Right to Change Syllabus:
I reserve the right to amend this syllabus at any time during the semester as I deem necessary.

College Calendar: 2019 - 2020
All official college dates are listed on the college calendar. The college calendar is available on the Mountain View College website at https://www1.dcccd.edu/catalog/ss/academic_calendar.cfm?loc=MVC. Follow the link and click Academic Calendar.

Last Day to Officially Withdraw from the Course:
The last day to officially withdraw from the course and receive the grade of “W” is 01/04/20.

Institutional Policies:
Institutional Policies relating to this course can be accessed from the following link: http://www.mountainviewcollege.edu/syllabipolicies

eCampus Help:
eCampus is the Internet based delivery system and grade repository maintained by the Dallas County Community College District for use by instructors and students participating in classroom and online activities. Occasionally technical issues arise with the use of eCampus and solutions to these should be requested from the support staff at the eCampus Help Desk. The support staff may be reached online or by phone at 972-669-6402 (out of Dallas call 1-866-374-7169).

Maintain a Copy of this Syllabus:
Print a copy of this syllabus and retain it throughout the semester. It may be wise to keep it until you have completed your college career as transferring credits to another college or university may require an evaluation of this syllabus.