Mathematics for Teachers II (Fundamentals of Mathematics II) Syllabus
Mountain View College

Instructor Information
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Course Information
Course Title: Mathematics for Teachers II (Fundamentals of Mathematics II)
Course Number: MATH 1351
Section Number: 60440
Semester/Year: Spring (March Flex) / 2020
Credit Hours: 3
Class Meeting Time/Location: INET
Certification Date: March 30, 2020
Last Day to Withdraw: May 1, 2020

Course Prerequisites
MATH 1350
Course Description
This course is intended to build or reinforce a foundation in fundamental mathematics concepts and skills. It includes the concepts of geometry, measurement, probability, and statistics with an emphasis on problem solving and critical thinking. (3 Lec.)

Student Learning Outcomes
1. Upon successful completion of this course, students will:
2. Apply fundamental terms of geometry such as points, lines, and planes to describe two and three dimensional figures.
3. Make and test conjectures about figures and geometric relationships.
4. Use a variety of methods to identify and justify congruency and similarity of geometric objects.
5. Perform geometric transformations.
6. Demonstrate fundamental probability techniques and apply those techniques to solve problems.
7. Explain the use of data collection and statistics as tools to reach reasonable conclusions.
8. Recognize, examine, and utilize the basic principles of describing and presenting data.
9. Perform measurement processes and explain the concept of a unit of measurement.
10. Develop and use formulas for the perimeter, area, and volume for a variety of figures.

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**

- Scientific Calculator

A standalone MyMathLab access code will suffice as there is an eBook within the MyMathLab system.

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.

**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>Percentages</th>
<th>Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>Quizzes</td>
<td>Quiz Average x 20%</td>
<td>20</td>
</tr>
<tr>
<td>Tests</td>
<td>Test Average x 60%</td>
<td>60</td>
</tr>
<tr>
<td>Homework</td>
<td>Homework Average x 20%</td>
<td>20</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td><strong>100%</strong></td>
<td><strong>100</strong></td>
</tr>
</tbody>
</table>

**Final Grade**

If your Final Grade falls in one of the following ranges, then the corresponding final letter grade will be submitted to the Registrar's Office. Check the MML Gradebook for a current overall grade.

<table>
<thead>
<tr>
<th>Points</th>
<th>Percentages</th>
<th>Letter Grade</th>
</tr>
</thead>
<tbody>
<tr>
<td>900-1,000</td>
<td>90-100%</td>
<td>A</td>
</tr>
<tr>
<td>800-899</td>
<td>80-89%</td>
<td>B</td>
</tr>
<tr>
<td>700-799</td>
<td>70-79%</td>
<td>C</td>
</tr>
<tr>
<td>600-699</td>
<td>60-69%</td>
<td>D</td>
</tr>
<tr>
<td>Points</td>
<td>Percentages</td>
<td>Letter Grade</td>
</tr>
<tr>
<td>--------</td>
<td>-------------</td>
<td>--------------</td>
</tr>
<tr>
<td>0-599</td>
<td>0-59%</td>
<td>F</td>
</tr>
</tbody>
</table>

**Gradebook**
To access your grades throughout the semester, please view the gradebook in MyMathLab. The MyMathLab gradebook will have the most current average for you. In the gradebook you can also review assignments you have completed. You cannot complete assignments by accessing them via the MyMathLab gradebook.

At the end of the semester, the overall grade you have earned and is displayed in the MyMathLab gradebook will be the grade posted in eConnect. **Do not expect any grades to be dropped before final course grades are posted.**

**Description of Graded Work**
Your grade is based on MML homework, review quizzes, and tests which will all be completed in MyMathLab. **Refer to the MyMathLab Student Registration Handout under the MyMathLab button in eCampus to learn how to enroll in MML. This is also where the course ID is found.**

**MyMathLab is a required purchase.**
When you enroll in MyMathLab, you are required to use the first and last name that the MVC/DTC Registrar has on file for you. If your name on the MyMathLab course roster is not the same as on the MVC/DTC course roster, then the posting of your grade will be delayed until the matter is resolved. You may also receive a failing grade if the matter is not resolved in a timely manner.

If you have enrolled in MyMathLab with temporary access, you are to pay on that account. **Do not open a new account when you purchase MyMathLab.** Follow the instructions in the reminder emails that MyMathLab/ Pearson sends to you. **Your grades will not transfer automatically or be transferred by me from one account to another. Therefore, you cannot complete this course using only the temporary access.**

**MyMathLab is a required purchase.**

**Readings, Videos, and PowerPoint Lectures:**
You are to read in the Multimedia Textbook, watch video presentations, and view PowerPoint lectures for the assigned sections. These may be accessed in MyMathLab under the button entitled “eBOOK” and the “Homework: button.

**Review Quizzes:**
There is a review quiz before each chapter test to help you prepare. Every quiz has to be taken in the lockdown browser and they are not timed. You get two chances to
take each quiz and the MyMathLab system will automatically include your highest quiz score when calculating your course grade. The Chapter 1 quiz is set so that the homework must be completed before you are allowed to take the quiz the first time. Before you take the quiz the second time, you must review the textbook chapter. The remaining quizzes do not have the same prerequisites and can be taken at any time.

**Tests:**
All tests will be taken online in MyMathLab. In order to have access to the Chapter 1 test, you must first complete the quiz for that chapter. The remaining tests do not have the same prerequisite and can be taken at any time. The tests can be accessed under the button entitled “Quizzes & Tests”. Each test will be timed and you will be given approximately 80 minutes to complete each test. **Each test must be completed in one sitting.** You cannot work in a test and go back to it at a later time to finish it. If the system boots you out of a test, then you must email me within **two minutes of getting booted out.** If you do not email me within that **two minutes**, your test will not be reset and will be submitted as is. It is imperative there is no delay in contacting me.

The system is set so that if you attempt to open another assignment, etc. your test session will end. **Do not open any other assignment, etc. when you are testing.** **Access will not be given if your test closes because you opened another assignment.** Test questions will be taken from the readings, video presentations, and PowerPoint lectures.

Each test has to be taken in the lockdown browser which you will download from MyMathLab. Please access the following link for more information. **Lockdown Browser**

A reliable computer with internet access is required. Because you will take tests in the lockdown browser, any difficulties with the lockdown browser must be worked out before the first test. Issues with the lockdown browser will not be cause for an extension on the quizzes or tests. A sample test has been posted in MML so that you can use it to test your computer's status with the lockdown browser. You will need to check your lockdown browser access before each test. If you cannot get the lockdown browser to work on your personal computer, then you will need to find an alternate computer to take the quizzes and tests.

If your computer crashes, etc. during a test which prevents you from completing the test, then you must provide me documentation proving the issue. **Without proper documentation, the test will not be reset for you to complete.**

Each test must be completed in one sitting. You cannot work in a test and go back to it at a later time to finish it. If the system boots you out of a test, then you must email me
within two minutes of getting booted out. If you do not email me within that two minutes, your test will not be reset and will be submitted as is. It is imperative there is no delay in contacting me.

**MyMathLab Homework:**
Under the “HOMEWORK” button in MyMathLab will be the assignments in which you will practice the mathematics concepts introduced in each chapter. The due dates for these assignments are listed beside each assignment. The due dates are also listed in eCampus under the “ASSIGNMENTS” button.

**Final Exam:**
The final exam is due by the posted deadline in eCampus and MyMathLab. It is a comprehensive exam.

**Instructor Attendance Policy and Certification Procedures:**
Students are expected to log in to the course regularly. For an online course, regularly is defined as at least three times per week. Since this is a 3-credit hour course, a student should expect to spend three hours or more a week learning the material by reading the text, viewing PowerPoints, and watching lecture videos. You should spend additional time completing the homework and studying. You must be a highly motivated student who can be disciplined to devote time to a distance learning program of study.

**To be certified as attending this online course, you must complete the Introduction Discussion Board assignment in eCampus by the deadline posted.**

Students must begin attendance in all classes of enrollment. No exceptions. Financial Aid will not be granted to students who have been certified as not attending, by the certification date. For this lecture course, your physical participation in class, on or before the certification date will allow you to receive credit for FA purposes. For certification dates, check with the division or FAO for further information. Students, who are not certified as beginning class, are responsible for any payments due as a result of non-certification, to include the dropping of courses.

**Late Work and Makeup Exam Policy**
Late work is not allowed. You are more than welcome to submit an assignment early. You are not allowed to submit an assignment late. Extensions will not be granted.

**Other Course Policies**
**Netiquette:**
Please refer to the information under the “Netiquette” button in eCampus to learn the
rules of etiquette for this course.

**Time Zone:**
This course will be facilitated in Central Standard Time.

**Responsibility of Online Learner:**
As a student in an online course, it is your responsibility to locate a computer with reliable internet access. Computer and internet issues/problems not associated with the eCampus and/or My Lab and Mastering (MyMathLab) websites’ technical issues or downtime will not be considered exceptions to the late work and makeup exam policies. It is also your responsibility to have the necessary course materials to complete the assignments. You will not receive extensions on assignments or tests due to financial issues, not receiving MyMathLab by the start of class, or personal computer issues. Please plan ahead and do not wait until the last minute to complete assignments or tests.

**MyMathLab is a required purchase.**

**Student Code of Conduct /Behavior:**
Any in-class, online, telephone, in-person, or email behavior or language deemed inappropriate by the instructor will not be tolerated. ANY communication or behavior deemed disrespectful will not be tolerated. Any student who is disruptive or offensive to me or your classmates will be required to discuss his or her behavior with the instructor and the dean before continuing with the course. **You will not be allowed to attend class or you will be removed from the online system until your inappropriate behavior or actions have been discussed and a plan for moving forward has been agreed on by the instructor and the dean.** Please familiarize yourself with and abide by the Student Code of Conduct found online at [Student Code of Conduct](#).

**Technical Support:**
If you experience difficulties with MyMathLab or eCampus, then you will need to contact technical support. More information is posted in eCampus.

**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. [Mountain View Institutional Policies](#)

**Course Schedule**
<table>
<thead>
<tr>
<th>Topic</th>
<th>SLOs</th>
<th>Readings &amp; Assignments</th>
<th>Due Dates (All due by 11:59 PM)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Introduction</td>
<td>n/a</td>
<td>Introduction Assignment in eCampus Discussion Board</td>
<td>March 29, 2020</td>
</tr>
</tbody>
</table>
| Probability                   | 5    | 1. Read the textbook pages for Chapter 9 in MyMathLab.  
                                 |                                | 2. View the videos and powerpoint lectures for Chapter 9 in MyMathLab.  
                                 |                                | 3. Complete the homework assignments for each section of Chapter 9 in MyMathLab.  
                                 |                                | 4. Complete the Chapter 9 Review Quiz in MyMathLab.  
                                 |                                | 5. Do the Chapter 9 Test in MyMathLab.                                                                 | April 2, 2020                  |
| Data Analysis / Statistics    | 6, 7 | 1. Read the textbook pages for Chapter 10 in MyMathLab.  
                                 |                                | 2. View the videos and powerpoint lectures for Chapter 10 in MyMathLab.  
                                 |                                | 3. Complete the homework assignments for each section of Chapter 10 in MyMathLab.  
                                 |                                | 4. Complete the Chapter 10 Review Quiz in MyMathLab.  
                                 |                                | 5. Do the Chapter 10 Test in MyMathLab.                                                                 | April 9, 2020                 |
| Geometry                      | 1, 2 | 1. Read the textbook pages for Chapter 11 in MyMathLab.  
                                 |                                | 2. View the videos and powerpoint lectures for Chapter 11 in MyMathLab.  
                                 |                                | 3. Complete the homework assignments for each section of Chapter 11 in MyMathLab.  
                                 |                                | 4. Complete the Chapter 11 Review Quiz in MyMathLab.  
                                 |                                | 5. Do the Chapter 11 Test in MyMathLab.                                                                 | April 16, 2020                |
| Congruence and Similarity with Constructions | 2, 3 | 1. Read the textbook pages for Chapter 12 in MyMathLab.  
                                 |                                | 2. View the videos and powerpoint lectures for Chapter 12 in MyMathLab.  
                                 |                                | 3. Complete the homework assignments for each section of Chapter 12 in MyMathLab.  
                                 |                                | 4. Complete the Chapter 12 Review Quiz in MyMathLab.  
<pre><code>                             |                                | 5. Do the Chapter 12 Test in MyMathLab.                                                                 | April 23, 2020                |
</code></pre>
<p>| Congruence and Similarity     | 2, 3, 4 | 1. Read the textbook pages for Chapter 13 in MyMathLab.                                  | April 30, 2020                 |</p>
<table>
<thead>
<tr>
<th>Topic</th>
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<th>Due Dates (All due by 11:59 PM)</th>
</tr>
</thead>
</table>
| with Transformations          |      | 2. View the videos and powerpoint lectures for Chapter 13 in MyMathLab.  
|                               |      | 3. Complete the homework assignments for each section of Chapter 13 in MyMathLab.  
|                               |      | 4. Complete the Chapter 13 Review Quiz in MyMathLab.  
|                               |      | 5. Do the Chapter 13 Test in MyMathLab.                                                                                                                                                                                 |                                 |
| Area, Pythagorean Theorem, and Volume | 8, 9 | 1. Read the textbook pages for Chapter 14 in MyMathLab.  
|                               |      | 2. View the videos and powerpoint lectures for Chapter 14 in MyMathLab.  
|                               |      | 3. Complete the homework assignments for each section of Chapter 14 in MyMathLab.  
|                               |      | 4. Complete the Chapter 14 Review Quiz in MyMathLab.  
|                               |      | 5. Do the Chapter 14 Test in MyMathLab.                                                                                                                                                                                 | May 7, 2020                     |
| All topics throughout the semester | 1 - 9 | 1. Complete the Final Exam Review in MyMathLab.  
|                               |      | 2. Complete the Final Exam in MyMathLab.                                                                                                                                                                                 | May 14, 2020                    |

The tentative course schedule will be posted in eCampus.

**The instructor reserves the right to alter the syllabus or course calendar if deemed necessary.**