MATH 2412 Syllabus
Eastfield College

Instructor Information
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Course Information
Course Title: Precalculus
Course Number: MATH 2412
Section Number: 40400
Semester/Year: Spring 2020 – 2nd 8 weeks
Credit Hours: 4
Class Meeting Time/Location: Online
Certification Date: April 3, 2020
Last Day to Withdraw: May 4, 2020

Course Prerequisites: MATH 1316.
Course Description: This course consists of the study of algebraic and trigonometric topics including polynomial, rational, exponential, logarithmic and trigonometric functions and their graphs. Conic sections, polar coordinates, and other topics of analytic geometry will be included. (4 Lec.)

Student Learning Outcomes
1. Demonstrate and apply knowledge of properties of functions.
2. Recognize and apply algebraic and transcendental functions and solve related equations.
3. Apply graphing techniques to algebraic and transcendental functions.
4. Compute the values of trigonometric functions for key angles in all quadrants of the unit circle measured in both degrees and radians.
5. Prove trigonometric identities.
6. Solve right and oblique triangles.

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:

1. **Textbook**: PreCalculus: Concepts Through Functions, A Right Triangle Approach to Trigonometry, (4e), Sullivan (The textbook is OPTIONAL)
2. **MyMathLab access code is required**. ISBN #9780134852188. An ebook is included with you MML access
   a. MML course id: giraud19402
3. A graphing calculator may be needed for some assignments. Students may check out a TI-84 calculator from the Reserve Desk in the Eastfield library for the day. TI-84 calculators are also available during testing at the Eastfield testing center.
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>Weight</th>
<th>Totals</th>
</tr>
</thead>
<tbody>
<tr>
<td>MML Homework</td>
<td>15%</td>
<td>15%</td>
</tr>
<tr>
<td>Quizzes (Test Reviews)</td>
<td>5%</td>
<td>5%</td>
</tr>
<tr>
<td>Tests</td>
<td>4 @ 7.5% each</td>
<td>30%</td>
</tr>
<tr>
<td>MidTerm Exam</td>
<td>25%</td>
<td>25%</td>
</tr>
<tr>
<td>Final Exam</td>
<td>25%</td>
<td>25%</td>
</tr>
</tbody>
</table>

**TOTAL: 100%**

**Final Grade**

<table>
<thead>
<tr>
<th>Percentages</th>
<th>Letter Grade</th>
</tr>
</thead>
<tbody>
<tr>
<td>89.5 - 100%</td>
<td>A</td>
</tr>
<tr>
<td>79.5 - 89.4%</td>
<td>B</td>
</tr>
<tr>
<td>69.5 - 79.4%</td>
<td>C</td>
</tr>
<tr>
<td>59.5 - 69.4%</td>
<td>D</td>
</tr>
<tr>
<td>0 - 59.4%</td>
<td>F</td>
</tr>
</tbody>
</table>

**Description of the course**

1. **This course has been modified due to the COVID-19 outbreak. A midterm exam will be taken at home on MML. If DCCCD goes back in session before semester is over, a proctored final exam will need to be taken at the EFC testing center (or other testing center if arranged in advance). If campus is still closed, you will take the final exam at home on ecampus using the Respondus Lockdown Browser. It records you and I will watch the video to ensure that no cheating is involved. When the end of April approaches and more information is acquired about school closures, I will send an email regarding your final exam.**

2. All homework, quizzes, online tests, and midterm will be submitted through MyMathLab (MML)
3. You are required to take the final exam either on campus at a testing center or through ecampus using the Respondus lockdown browser depending if the school opens or not.
4. Each homework, quiz and online test has a specific due date that is highly enforced.
   - Only the homework can be turned in late. However, there is a 10% penalty deduction for the homework problems turned in past the specified deadline.
   - The final submission deadline for all late homework is the day before the final exam is due.
   - You may work ahead as much as you want.
5. The reviews for each online test are considered your quizzes and count for 5% of your overall score.
   - Each review covers two chapters as each online test covers those two chapters that you reviewed on.
   - You have two attempts for each review.
     i. Both attempts are due on the date specified on the course pacing calendar.
   - The reviews cannot be turned in late.
6. Online test covers will account for a total of 30% of your overall score.
   - You have a total of 4 online tests
   - You will have two attempts for each online test and have 120 minutes for each attempt of each test.
     i. Both attempts are due on the date specified on the course pacing calendar.
   - I will take the highest score of the two attempts (if you did both attempts)
   - If you are satisfied with grade of the first attempt of that test, you do not have to do the other attempt.
   - Each online test has a specific deadline and CANNOT be turned in late. If the deadline of the online test is missed, a grade of a zero will be placed in the gradebook.
7. The Midterm Exam will cover Chapters 1,3,4,10.5 and 11. This counts as 25% of your overall score. The midterm must be taken by April 17, 2020.
   - Please complete the midterm review to prepare for your midterm exam. This review counts as a quiz grade.
   - You will only have 1 attempt for the midterm exam.
   - A graphing calculator is allowed.
   - The midterm exam must be taken by the specified deadline. If the deadline of the midterm is missed, a grade of a zero will be placed in the gradebook.
8. The Final Exam will cover Chapters 5,6,7,8 and 9. This counts as 25% of your overall score. The final must be taken by May 14, 2020.
   - Please complete the final exam review to prepare for your final exam. This review counts as a quiz grade.
   - You will only have 1 attempt for the final exam.
   - A graphing calculator is allowed.
   - The final exam must be taken by the specified deadline. If the deadline of the final exam is missed, a grade of a zero will be placed in the gradebook.
9. Formulas – some formulas need to be memorized for each proctored exam and some don’t. In MML, I have clearly defined what will be given to you for each exam under the tab labeled “formulas.” I highly recommend in printing those sheets out while doing the homework to ensure understanding of what is expected to be known.

10. All late or missed homework assignments have a final submission deadline of the day before the final exam.

**Instructional Components:**

**Step 1:** Watch a video
- Video lecture introduces each section of each chapter
- Must be accessed before each homework assignment
- Can be accessed after due date
- Taking notes while watching the video is highly recommended.

**Step 2:** Homework
- Consists of problems from each section
- Problem can be repeated until mastered - select “Similar Exercise” after each 4th incorrect attempt
- 70% mastery required to proceed to next topic
- Can be accessed after due date
- Late problems penalized 10%

**Step 3:** Quizzes/Reviews
- Consists of problems from two chapters of homework problems.
- Must be accessed before each test
- Can be taken up to two times.
- In order to access the review, the student must have received 70% on each homework assignment that the review covers
- Late submission not allowed
- Midterm and final exam reviews are to be taken before taking those proctored exams

**Step 4:** Online Tests
- Assesses student understanding of two designated chapters
- Can be taken up to two times
- Only the highest score of the two attempts will be put into the gradebook
- Late submission not allowed

**Late Work Policy**

**Policy on Missed Assignments such as Homeworks and Quizzes:** If the student misses a homework assignment, a 10% penalty deduction will be placed on only the homework problems turned in passed the deadline. If the student misses a Quiz assignment (aka the test reviews) a zero will be placed in the gradebook.
Policy on Missed Online Tests: Each test has a specific deadline that is highly enforced. If the student misses the test, a grade of a zero will be placed in the gradebook.

Policy on Missed Midterm and Final Examinations: The midterm and final exam have specific deadlines that are highly enforced. If the student misses the deadline for midterm or the final exam, a grade of a zero will be placed in the gradebook. No extensions will be given - no exceptions.

- Because the final has the possibility of being done at home depending on campus closure, you will be using the Respondus Lockdown browser on blackboard. I will watch everyone’s video to ensure that no cheating is taking place. If you are caught cheating (extra formula sheets, using your phone, your notes, other people, etc…) you will be given an automatic zero.

Attendance and Your Final Grade

Any student that has not registered on MyMathLab AND completed the orientation assignment by 7 pm on April 3, 2020 (CST) will NOT be certified as having attended and consequently may be dropped from the class. If a student is unable to complete a course (or courses) in which he/she is registered, it is the responsibility of the student to withdraw from the course by the appropriate date. (The date is published in the academic calendar each year and in each semester’s class schedule). If a student does not withdraw, he/she will receive a performance grade, usually a grade of “F”.

Students who are absent from class for the observance of a religious holiday may take an examination or complete an assignment scheduled for that day within a reasonable time after the absence if, not later than the 15th day of the semester, the student notified the instructor(s) that the student would be absent for a religious holiday. Sec. 51.911 TX Educ. Code.

Standard of Conduct/Classroom Etiquette

No food, drinks or tabacco products are allowed in Eastfield College classrooms. However, if your class is in a non-lab classroom, your instructor may allow food or drink.

Additional Resources

Tutoring Services (https://www.eastfieldcollege.edu/services/academic-support/tutoring/pages/default.aspx) are provided for Mathematics and Developmental Mathematics in the Eastfield library, Building L, Room 200. Students are encouraged to take advantage of this service for additional help in their course work. Visit the link
above or call 972-860-7174 for more information on tutors, hours of operation and policies.

**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.

[Eastfield Institutional Policies](http://www.eastfieldcollege.edu/syllabipolicies)

**Course Content**

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<thead>
<tr>
<th>Chapter</th>
<th>Section</th>
<th>Topic</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chapter 1</td>
<td>1.1, 1.3, 1.4, 1.5</td>
<td>Functions And Graphs</td>
</tr>
<tr>
<td>Chapter 3</td>
<td>3.1, 3.4, 3.5</td>
<td>Polynomial and Rational Functions</td>
</tr>
<tr>
<td>Chapter 4</td>
<td>4.1 – 4.6</td>
<td>Composition, Inverse, Exponential and Logarithmic Functions</td>
</tr>
<tr>
<td>Chapter 5</td>
<td>5.2 – 5.5</td>
<td>The Trigonometric Functions</td>
</tr>
<tr>
<td>Chapter 6</td>
<td>6.1 – 6.7</td>
<td>Analytic Trigonometry</td>
</tr>
<tr>
<td>Chapter 7</td>
<td>7.1 – 7.3</td>
<td>Applications of Trigonometric Functions</td>
</tr>
<tr>
<td>Chapter 8</td>
<td>8.1, 8.2, 8.4 – 8.7 (8.3 Optional)</td>
<td>Polar Coordinates, Vectors</td>
</tr>
<tr>
<td>Chapter 9</td>
<td>9.1 – 9.7</td>
<td>Analytic Geometry, Parametric Equations</td>
</tr>
<tr>
<td>Chapter 10</td>
<td>10.5</td>
<td>Partial Fraction Decomposition</td>
</tr>
<tr>
<td>Chapter 11</td>
<td>11.1 – 11.4 (11.5 Optional)</td>
<td>Sequences, Series, Mathematical Induction, Binomial Theorem</td>
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