MATH 1314.40411 Online (Corequisite) Syllabus
(Linked to DMAT 0315)
Eastfield College

Instructor Information
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Course Information
Course Title: Developmental Mathematics Algebra Support
Course Number: MATH1314
Section Number: 40411
Semester/Year: SPRING 2020
Credit Hours: 3
Class Meeting Time/Location: MTWRFSU – Online Course
Certification Date: Friday, 04/03/2020
Last Day to Withdraw: Monday, 05/04/2020

Course Corequisite/Concurrent
This is a corequisite course and requires continuous concurrent enrollment with DMAT 0315.

Course Description
In-depth study and applications of polynomial, rational, radical, exponential and logarithmic functions, and systems of equations using matrices. Additional topics such as sequences, series, probability, and conics may be included.
Student Learning Outcomes
Upon successful completion of this course, students will:
1. Demonstrate and apply knowledge of properties of functions, including domain and range, operations, compositions, and inverses.
2. Recognize and apply polynomial, rational, radical, exponential and logarithmic functions and solve related equations.
3. Apply graphing techniques.
4. Evaluate all roots of higher degree polynomial and rational functions.
5. Recognize, solve and apply systems of linear equations using matrices.

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
2. MyMathLab access code is required. **MYMATHLAB ACCESS WAS PURCHASED IN DMAT 0315 AND NO ADDITIONAL COURSE MATERIALS IN MYMATHLAB ARE NEEDED.**
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 College library for the day. TI-84 calculators are also available during testing at the Eastfield College 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.

Website: www.pearsonmylabandmastering.com
Course ID … saucedo65667

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>
</tr>
</thead>
<tbody>
<tr>
<td>Online MML Homework &amp; Videos</td>
<td>20%</td>
</tr>
<tr>
<td>Online MML Reviews</td>
<td>5%</td>
</tr>
<tr>
<td>Online MML Tests</td>
<td>15%</td>
</tr>
<tr>
<td>Online MML Mid Term</td>
<td>20%</td>
</tr>
<tr>
<td>Online MML Final Exam – Last Day of Class</td>
<td>40%</td>
</tr>
<tr>
<td>TOTAL:</td>
<td>100%</td>
</tr>
</tbody>
</table>

Final Grade

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

Note: Beginning Spring 2020, numeric grades will be entered in econnect and translated to the above letter grades. Since D grades do not exist for Developmental Math, percentages from 60 to 69% will be entered as 59 in econnect in order to correctly translate to the letter grade F.

Description of Graded Work

All Online MML HOMEWORK assignments will have a Video Prerequisite prior to Starting the HW assignments. Notes should be taken by the Students to review the contents of the Video Lesson.
All Online MML TESTS will have a Review Test Prerequisite that will require a 50% or Higher prior to taking the MML Test prior to the end of it’s Due Date. MML Test will have up to 3 tries till prior to it’s Due Date.

Online MML Mid Term will have a Review Mid Term Prerequisite that will require a 50% or Higher prior to taking the MML Test prior to the end of it’s Due Date. The Review Mid Term itself also will have a Prerequisite that will require a 50% or Higher on all previous MML Tests up to the Mid Term. No Student will be allowed to take the Mid Term until after all the Prequisite have been met. No Exception will be given. The Online MML Mid Term may have up to 2 tries till prior to it’s Due Date.

Online MML Final Exam will have a Review Final Exam Prerequisite that will require a 50% or Higher prior to taking the MML Test prior to the end of it’s Due Date. The Review Final Exam itself also will have a Prerequisite that will require a 50% or Higher on all previous MML Tests up to the Final Exam, including the Mid Term itself. No Student will be allowed to take the Final Exam until after all the Prequisite have been met. No Exception will be given. The Online MML Final Exam may have up to 2 tries till prior to it’s Due Date.

Attendance and Your Final Grade
You are expected to regularly attend all classes in which you are enrolled. Students have the responsibility to attend class and to consult with the instructor when an absence occurs. For my Lecture and Hybrid Courses, There will be a 2 point deduction off the Final Grade Average for each absence beyond the allowed 6 hours of excused or unexcused absences

(However if you are an Online Student, YOU DO HAVE TO PARTICIPATE Several times a week in your course to be SUCCESSFUL, so the deduction will not apply to you)

Late Work Policy
All MyMathLab (MML) Assignments are expected to be done on time by their Assigned Due Dates. However, All Late Work within MML (Except for the Final Exam) will be given a Late Penalty of 30% for all MML Assignments that are Past Due. The Last Day to submit Late MML Assignments will be the Monday prior to the Final Exam. All Dates for In-Class Exams will be given to you during Class time. You are responsible for any assignment that are due in your absence and any that are missed will be given a Penalty Percentage.
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)

SYLLABUS REVISION:
The guideline in this syllabus may be changed, deleted, or amended any time by the instructor. The attached course outline is intended as an aid in helping you know your responsibilities for the semester. It is possible that some changes in the course outline or class policies will be made during the semester. Any changes that are made to the class policies or course outline will be announced in class.

Course Content

<table>
<thead>
<tr>
<th>Chapter</th>
<th>Section</th>
<th>Topic</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chapter 6</td>
<td>6.1 – 6.8</td>
<td>Radical Expressions and Functions; Rational Numbers as Exponents; Simplifying Radical Expressions, Addition, Subtraction, Multiplication and Division of Radical Expressions; Solving Radical Equations; Applications Involving Powers and Roots: Pythagorean Theorem; Increasing, Decreasing, and Piecewise Functions</td>
</tr>
<tr>
<td>Chapter 7</td>
<td>7.1 – 7.5</td>
<td>Symmetry; Transformations; The Complex Numbers; Quadratic Equations, Functions, Zeros, and Models; Analyzing Graphs of Quadratic Functions</td>
</tr>
<tr>
<td>Chapter</td>
<td>Section</td>
<td>Topic</td>
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<tr>
<td>Chapter 8</td>
<td>8.1 – 8.6</td>
<td>Polynomial Functions and Models; Graphing Polynomial Functions; Polynomial Division; The Remainder Theorem and the Factor Theorem; Theorems about Zeros of Polynomial Functions; Rational Functions; Polynomial and Rational Inequalities</td>
</tr>
<tr>
<td>Chapter 9</td>
<td>9.1 – 9.7</td>
<td>The Composition of Functions; Inverse Functions; Exponential Functions and Graphs; Logarithmic Functions and Graphs; Properties of Logarithmic Functions; Solving Exponential and Logarithmic Equations; Applications and Models; Growth and Decay; Compound Interest</td>
</tr>
<tr>
<td>Chapter 10</td>
<td>10.1 – 10.4</td>
<td>Matrices, Matrix Operations, Inverse of Matrices, Determinants and Cramer's Rule <em>(Your Instructor will Place this Unit in the MATH1314 portion of the CoReq)</em></td>
</tr>
<tr>
<td>Chapter 11</td>
<td>11.2</td>
<td>Circles</td>
</tr>
<tr>
<td>Chapter 12</td>
<td>12.1 – 12.3, 12.7</td>
<td>Sequences and Series; Arithmetic Sequences; Geometric Sequences and Series; The Binomial Theorem</td>
</tr>
</tbody>
</table>

**MML Tech Support**

If you require assistance with installing plug-ins or configuring your computer, you can contact Pearson Education's Product Support team.

Revised 03/28/2020