MATH 1314 Syllabus
Eastfield College

Instructor Information
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Office Hours: To be announced
Division Office and Phone: STEM Division, C-Building, Room 202 | 972-860-7297

Course Information
Course Title: College Algebra
Course Number: MATH 1314
Section Number: 42490
Semester/Year: Spring 2020 (wintermester)
Credit Hours: 3
Class Meeting Time/Location: Online (Ecampus.com and MyMathLab.com)
Certification Date: 12/18/19
Last Day to Withdraw: 1/06/20

Course Prerequisites
College level ready in Mathematics algebra-based level.

Course Description
This course is an 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. This course is cross-listed as MATH 1414. The student may register for either MATH 1314 or MATH 1414 but may receive credit for only one of the two.
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
   OPTIONAL
2. MyMathLab access code is required. Standalone access code (24 months).
   ISBN: 9780134761923
   Website: http://pearsonmylabandmastering.com/
   Course ID: rahmanabadi88816
3. A graphing calculator may be needed for some assignments. Students may check out a TI-84 calculator for 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.

**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>MML Homework</td>
<td>30%</td>
</tr>
<tr>
<td>Quizzes</td>
<td>10%</td>
</tr>
<tr>
<td>Tests</td>
<td>20%</td>
</tr>
<tr>
<td>MidTerm Exam</td>
<td>10%</td>
</tr>
<tr>
<td>Final Exam</td>
<td>30%</td>
</tr>
</tbody>
</table>

**TOTAL: 100%**

**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>60-69%</td>
<td>D</td>
</tr>
<tr>
<td>0-59%</td>
<td>F</td>
</tr>
</tbody>
</table>

**INSTRUCTIONAL COMPONENTS**

This course is divided into modules. The components of each module are described below.

- **Step 1: Video** – Video lecture introduces each section of module
  - Must be accessed before each homework assignment
Grade omitted from course average
Can be accessed after due date

**Step 2:** Homework – Consists of problems from each section
- Problem can be repeated until mastered – select “Similar Exercise” after each 3rd incorrect attempt
- All “Help” buttons available
- Can be accessed after due date
- Late problems penalized 10%
- Must be in “Homework,” not “Review” mode to save progress
- Problems saved individually
- 80% mastery required to proceed to next topic

**Step 3:** Quiz – Consists of problems that summarize multiple sections
- Problem can be repeated until mastered – select “Similar Exercise” after each 3rd incorrect attempt
- “Help” buttons not available
- Can be accessed after due date
- Late problems penalized 10%
- Must be in “Homework,” not “Review” mode to save progress
- Problems saved individually
- 80% mastery required to proceed to next topic

**Step 3:** Test Review (optional) – Helps prepare students for module test
- Must be accessed before proceeding to module test
- Score omitted from student grades
- Can be accessed after due date
- Reviewed by student only immediately after submission
- Late submission not allowed

**Step 6:** Test Remediation (if necessary) – Practice skills not mastered
- Contains only problems not mastered in module test
- Each problem not mastered creates 2 similar remediation problems
- Score omitted from student grades
- 80% mastery required to access 2nd test attempt

**Step 7:** 2nd Test Attempt (if necessary) – Retest module concepts
- Reviewed by student only immediately following submission
- Lower Score (1st or 2nd attempt) omitted following 2nd attempt

**Step 8:** Test Remediation II (if necessary) – Practice skills not mastered
- Homework assignment containing only problems not mastered in 2nd module test attempt
- Each problem not mastered creates 2 similar remediation problems
- Score omitted from student grades
- 90% mastery required to access 3rd test attempt

**Step 9:** 3rd Test Attempt (if necessary) – Final test attempt permitted
- Reviewed by student only immediately following submission
- Lowest test attempt scores are omitted

**Attendance and Your Final Grade**
You must have **completed your first assignment in mymathlab BY MIDNIGHT ON 12/18/19** to be certified in the course. If you have not completed the first assignment by midnight on 12/18/19 you WILL NOT be certified in the course and this may impact your financial aid!

Classroom attendance is not required for this course; however, students are required to remain actively engaged with course curriculum. **Please note that you are required to take one comprehensive final proctored exams on campus or using online proctoring services.** Exams will be administered at the Eastfield College Testing Center (or any other DCCCD Campuses if students inform the instructor in advance), another approved testing location or online at [www.proctoru.com](http://www.proctoru.com). Please go to [https://www.eastfieldcollege.edu/apply-reg/testing/pages/testcntrs.aspx](https://www.eastfieldcollege.edu/apply-reg/testing/pages/testcntrs.aspx) for more information about testing center hours, policies, procedures, etc.

**Proctored Exam Policies:**

- 33 multiple choice items
- Must be completed independently by scheduled exam time
- Administered in testing center
- No remediation option
- One attempt

**Late Work Policy**

No late work accepted. All of the homework and quizzes and tests on MyMathlab have final due date of 01/10/20.

**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.

**DROP POLICY**
To drop a class or withdraw from the college, students must follow the prescribed procedure. It is the student’s responsibility to drop or withdraw. Failure to do so will result in receiving a performance grade, usually grade of “F”. No drop or withdrawal requests are accepted by telephone. Students who drop a class or withdraw from the College before the semester deadline receive a “W” (Withdraw) in each class dropped. The deadline for receiving a “W” is indicated on the academic calendar and the current class schedule. If you are unable to complete this course, you must withdraw from it by the date indicated above. For more information, contact the Admissions/Registrar’s Office at 972-860-7167 (Room C 119.)

**COURSE INTRODUCTION**

You have enrolled in an online class. In this online class, you will work through individualized computer-based modules with the support and guidance of an instructor as needed. In addition to online instruction, individual assistance and full group instruction are available. You can always work ahead however, deadlines will be enforced. Don’t fall behind.

**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](http://www.eastfieldcollege.edu/syllabipolicies))

**ADDITIONAL RESOURCES**

The Math Tutoring Center provides FREE TUTORING to current Eastfield College students enrolled in a Mathematics or Developmental Mathematics course. Students are encouraged to take advantage of this free resource for additional help in their course work. Please visit the Math Tutoring Center located in the Learning Commons in L200, check eastfieldcollege.edu/tutoring, or call 972-860-7174 for more information.

**STRATEGIES TO BE SUCCESSFUL**

1. Ask questions.
2. Read each chapter.
3. Show all work.
4. Check your answers.
5. Make note of problems for which you have questions.
6. STUDY FOR TESTS.

To successfully complete this course you must be diligent. Make sure you set aside a period of time each day that you can work on the material, and do not fall behind the schedule attached to this syllabus. Work ALL the assigned homework problems as a minimum, and more if you feel you have not quite mastered the material. If you have a
problem, contact me immediately so that you don’t fall behind. *The key to success in this course is doing your work every day.*

**Course Content**

<table>
<thead>
<tr>
<th>Chapter</th>
<th>Section(s)</th>
<th>Topic(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chapter P</td>
<td>P1</td>
<td>Classification of Real Numbers</td>
</tr>
<tr>
<td>Chapter 1</td>
<td>1.5-1.7</td>
<td>Equations, Relations and Functions</td>
</tr>
<tr>
<td>Chapter 2</td>
<td>2.1-2.2, 2.5-2.8</td>
<td>More on Functions, Circles</td>
</tr>
<tr>
<td>Chapter 3</td>
<td>3.1-3.6</td>
<td>Polynomial and Rational functions; Theory of Functions</td>
</tr>
<tr>
<td>Chapter 4</td>
<td>4.1-4.5</td>
<td>Exponential, Logarithmic and Special functions, and applications</td>
</tr>
<tr>
<td>Chapter 6</td>
<td>6.3-6.5</td>
<td>Matrices, Determinants, Solving Systems of equations using Matrices and applications</td>
</tr>
<tr>
<td>Chapter 8</td>
<td>8.1-8.3, 8.5</td>
<td>Progressions, The Binomial Theorem, mathematical reasoning skills, Sequences, Series and Applications</td>
</tr>
</tbody>
</table>

**Course Schedule**

<table>
<thead>
<tr>
<th>Module</th>
<th>Sections</th>
<th>Topics</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>P1, 1.5-1.7, 2.1-2.2, 2.5-2.8</td>
<td>Real number system, Equations, Relations and Functions; Circles</td>
</tr>
<tr>
<td>2</td>
<td>3.1-3.6</td>
<td>Polynomial and Rational functions; Theory of Functions</td>
</tr>
<tr>
<td>3</td>
<td>4.1-4.5</td>
<td>Exponential, Logarithmic and Special functions</td>
</tr>
<tr>
<td>4</td>
<td>6.3-6.5, 8.1-8.3, 8.5</td>
<td>Progressions, The Binomial Theorem, Matrices, Determinants, mathematical reasoning skills, Sequences, Series and Applications</td>
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