Instructor Information
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Course Information
Course Title: College Algebra
Course Number: MATH 1314
Section Number: 40400
Semester/Year: Spring 2020 Term II
Credit Hours: 3
Class Meeting Time/Location: INET
Certification Date: 03/30/2020
Last Day to Withdraw: 05/01/2020

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
   Textbook **OPTIONAL**
2. MyMathLab access code is required. Standalone access code (24 months). 
   ISBN: 9780134761923
3. A graphing calculator is required. 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>
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<tbody>
<tr>
<td>Homework</td>
<td>25%</td>
</tr>
<tr>
<td>Quiz</td>
<td>25%</td>
</tr>
<tr>
<td>Midterm Exam</td>
<td>25%</td>
</tr>
<tr>
<td>Final Exam</td>
<td>25%</td>
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</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>

*Note: Core Artifact assignment will be issued during the semester. This assignment is designed to assess key, in-demand skills of communication, quantitative literacy, and critical thinking. This assignment must be submitted one week before the final exam in order to receive a performance grade that reflects the overall grading policy in the syllabus.

**Description of Graded Work**

**Homework:** All homework assignments will be posted on MyMathLab. You will find a MyMathLab link on eCampus the first day of class. When accessing an assignment, students will have help tools such as "View an Example" and "Help Me Solve This" to assist with the homework. Students can also click "Ask My Instructor" to send instructor questions - all I need is a quick description stating where you are stuck in
the textbox that will appear so I can help you proceed. Students will also have
the textbook available in electronic form with videos in your help tools for your
convenience.

Please note that you can attempt the homework problems as many times as
needed. MyMathLab initially gives three tries to answer a problem correctly, and if the
answer is wrong after the third try, MyMathLab will display the correct answer and allow
you to attempt a similar exercise for full credit. Feel free to click the "Similar Exercise"
button as many times as you need to receive full credit.

The chapter videos, handouts, and powerpoints on MyMathLab are optional, but
are available for your reference. You can find these helpful resources
in MyMathLab under "Multimedia Library."

**Quizzes:** There will be 4 quizzes posted on MyMathLab throughout the
semester. These quizzes will be very similar to the homework assignments, however
there are key differences students should be aware of:

Please note that tools such as "View an Example" and other similar help tools will
be unavailable. You will still have access to the textbook and videos so feel free to use
available resources to complete your quizzes. Review the problems carefully before
submitting your answers. **You are allowed to take a quiz up to 3 times.** Highest score
will be recorded.

**Midterm & Final Exam:** All tests, including the final exam, will be administered either
(a) on campus at an approved DCCCD testing location, or (b) online through ProctorU.
Students may request their preferred method of testing. Instructor will contact class
within the first week so students can request their preferred method through a survey
that will be posted on eCampus. Exam windows will be created for students'
convenience. Midterm and final exam must be taken during exam windows (no
exceptions). Please consider the following before submitting your request:

**Face-to-Face Testing at Approved DCCCD Location:** Approved testing centers
include the following main campuses: BHC, CVC, EFC, ELC, MVC, & NLC. If you
choose to test at an approved testing center, you can take your exam on a walk-in
basis. Please note that the testing centers serve students based on seating availability.
Plan accordingly as some locations are closed on weekends and holidays. See testing
center hours of operation here:
https://www.dcccd.edu/services/academic-support/testing-centers/pages/default.aspx

There’s no fee for testing at a DCCCD testing center. Please have your ID ready along
with your student ID number, course information, and eCampus login so you can log in
and take your test when you are seated. DCCCD testing centers generally accept any
photo identification for your ID (student ID card / driver’s license / passport / state ID / military ID / etc.), however the district requires that students carry their student ID card at all times.

**Online Testing Through ProctorU:** If you choose to test at home, create a ProctorU account here: [https://go.proctoru.com/students/users/new](https://go.proctoru.com/students/users/new). Be sure to choose Eastfield College as your home institution. **Make sure you test your computer and connection in advance in order to be online ready on test day.** You can test your equipment using the following link: [https://go.proctoru.com/students/system-metrics/new](https://go.proctoru.com/students/system-metrics/new).

**Please note that ProctorU will charge a fee (~ $20 - $25) for online testing.** ProctorU requires **at least 72-hours notice** when scheduling a test. If you schedule inside of 72 hours, you may see an additional fee for late scheduling. If you choose this method of testing, you may begin scheduling a future reservation for the midterm and final exam after the first day of class. Schedule your tests three days out in order to avoid any unnecessary fees.

On the ProctorU reservation page ([https://go.proctoru.com/students/reservations](https://go.proctoru.com/students/reservations)), schedule a new session and locate the exams for this course (MATH 13XX - Exam X - Semester 20XX - Joe Coreas). Pick a convenient time and date for testing within the exam window. Please have your ID ready along with your eCampus info so you may log in and take your test. ProctorU generally accepts any photo identification (student ID card / driver's license / passport / state ID / military ID / etc.).

**Students are responsible for ensuring all equipment will be fully functional for the duration of the test.**

**Attendance**

You are expected to regularly engage in course content. Orientation assignment must be submitted before census date in order to be certified for the course. Blackboard Collaborate (online video conferencing) available upon request. Please contact instructor to make an appointment.

**Late Work Policy**

You are allowed to turn in late homework & quiz assignments. Problems submitted after the due date are subject to a 10% penalty. **Once we reach a major test, all previous assignments will become unavailable.**

**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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<th>Chapter</th>
<th>Section(s)</th>
<th>Topic(s)</th>
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<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>
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<tr>
<td>Chapter 2</td>
<td>2.1-2.2, 2.5-2.8</td>
<td>More on Functions, Circles</td>
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<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>
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<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>

Revised 10/2019

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 students know their responsibilities for the semester. It is possible that some changes in the course
outline or class policies will be made during the semester. Refer to the syllabus posted on eCampus for the latest revision.