College Algebra MATH 13214.00 #30642
Department of Mathematics and Statistics
Summer I 2020

A. COURSE INFORMATION

Course number/section: MATH 1314.002 #30642
Class meeting time: MTWR 12:00 – 1:53 PM
Class location: ONLINE
Course Website: bb9.tamucc.edu

B. INSTRUCTOR INFORMATION

Instructor: Lola McClendon
Office location: Online
Office hours: MTWR 11:00 – 12
Telephone: 351-825-2844 (will go to voice mail, please use email)
e-mail: lola.mcclendon@tamucc.edu
Appointments: Email if you would like to make an online appointment

C. COURSE DESCRIPTION

Catalog Course Description
3 sem. hrs. (3:0) TCCNS Equivalent: MATH 1314
Quadratic equations, inequalities, graphs, logarithms and exponentials, theory of polynomial equations, systems of equations. Counts as the mathematics component of the University Core Curriculum. Prerequisite: MATH 0310 or placement into MATH 1314. Fall, Spring, Summer.

D. PREREQUISITES AND COREQUISITES

Prerequisites
You must have a TSI score of 350 to enroll in this class or successful completion of MATH 0310.

E. REQUIRED TEXTBOOK(S), READINGS AND SUPPLIES

Required Textbook(s)
Knewton Access code ($35 purchased online, approximately $40 at bookstore), pencils, erasers, dedicated notebook, and a scientific calculator.

College Algebra by OpenSTAX is a free textbook that is embedded into Blackboard. You are expected to read and annotate as needed.

A TI-83/ TI-84 plus or INSPIRE calculator MAY NOT be used at anytime. Cell phones may not be used as calculators. A TI 30SXII is highly recommended.
F. STUDENT LEARNING OUTCOMES AND ASSESSMENT

Assessment is a process used by instructors to help improve learning. Assessment is essential for effective learning because it provides feedback to both students and instructors. A critical step in this process is making clear the course’s student learning outcomes that describe what students are expected to learn to be successful in the course. The student learning outcomes for this course are listed below. By collecting data and sharing it with students on how well they are accomplishing these learning outcomes students can more efficiently and effectively focus their learning efforts. This information can also help instructors identify challenging areas for students and adjust their teaching approach to facilitate learning.

Student Learning Outcomes

By the end of this course, students will be able to:

1. Interpret and simplify integral and rational exponents.
2. Use the properties of exponents to simplify algebraic expressions.
3. Use addition, subtraction, multiplication and division with order of operations to simplify monomials, binomials and polynomials.
4. Use properties to simplify radicals, including rationalizing the denominator.
5. Use property of fractions and factoring to simplify rational expressions.
6. Solve linear equations and inequalities, which include real numbers, parenthesis, multiple-terms with the variable and have conditional, no solution or infinite solutions.
7. Use factoring techniques and the zero principle or the quadratic formula to solve quadratic equations for real or complex solutions.
8. Solve inequalities and report answers as graphs, sets, or intervals.
9. Solve equations that are classified as rational, radical, or absolute value
10. Find the linear, rational, radical, quadratic equations to model or solve application problems including age problems, consecutive numbers, area problems, and motion problems.
11. Represent graphically the solution(s) of equations and inequalities in one and two variables.
12. Solve systems of linear equations in two variables using elimination and substitution methods.
13. Write equations in one or two variable to solve or model application problems including mixture and motion problems.
14. Understand the relationship between the slopes of two equations and the intercepts to determine if lines are parallel, perpendicular, and identity or just intersecting.
15. Write equations for lines that are parallel or perpendicular to a given equation and passing through a specific point using point slope formula.
16. Convert from standard form to slope-intercept form and vice versa.
17. Write equations for lines in slope-intercept, point-slope and standard form given a graph, two points or a slope and point.
18. Given a graph or quadratic equations determine the x- and y-intercepts, vertex.
G. INSTRUCTIONAL METHODS AND ACTIVITIES

The instructional method is a combination of online lectures, completing Knewton Learning, and help sessions during online office hours. Students will use Knewton Learning independently to complete learning assignments. At the end of the semester, students will show competency by passing all assignments, quizzes, tests and the final exam with an overall score of 70% or better.

H. MAJOR COURSE REQUIREMENTS AND GRADING

Student learning outcomes (described in Section F) will be measured via progress on homework, quizzes, exams, and final exam. Every homework problem can be worked multiple times until a correct answer is achieved. Exams will be administered online and virtually proctored. The final exam is comprehensive and is written by the Mathematics and Statistics Department. All students will take a common final exam. No formula sheets will be provided for any tests, quizzes, or final.

<table>
<thead>
<tr>
<th>ACTIVITY</th>
<th>% of FINAL GRADE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Knewton Learning</td>
<td>20%</td>
</tr>
<tr>
<td>Quizzes</td>
<td>10%</td>
</tr>
<tr>
<td>Exams</td>
<td>50%</td>
</tr>
<tr>
<td>Final</td>
<td>20%</td>
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I. COURSE CONTENT/SCHEDULE

Through Knewton, just-in-time support will be offered for any of the topics listed.

MATH 1314 SUMMER 2020 TIMELINE

<table>
<thead>
<tr>
<th>Day</th>
<th>Date</th>
<th>Topics Covered</th>
</tr>
</thead>
<tbody>
<tr>
<td>MON</td>
<td>1-Jun</td>
<td>Introduction, Learning in an Online Environment, Pre-requisite Topics</td>
</tr>
<tr>
<td>TUE</td>
<td>2-Jun</td>
<td>Linear Equations &amp; Inequalities</td>
</tr>
<tr>
<td>WED</td>
<td>3-Jun</td>
<td>Quadratic Equations &amp; Complex Numbers</td>
</tr>
<tr>
<td>THUR</td>
<td>4-Jun</td>
<td>Other Types of Equations</td>
</tr>
<tr>
<td>SUN</td>
<td>7-Jun</td>
<td>HOMEWORK DUE &amp; EXAM 1</td>
</tr>
<tr>
<td>MON</td>
<td>8-Jun</td>
<td>Absolute Value Equations and Inequalities</td>
</tr>
<tr>
<td>TUE</td>
<td>9-Jun</td>
<td>Basic Functions &amp; Function Notation, &amp; Circles</td>
</tr>
<tr>
<td>WED</td>
<td>10-Jun</td>
<td>Domain and Range, and Transformations</td>
</tr>
<tr>
<td>THUR</td>
<td>11-Jun</td>
<td>Behavior of Graphs and Rates of Change, Composition of Functions</td>
</tr>
<tr>
<td>SUN</td>
<td>14-Jun</td>
<td>HOMEWORK DUE &amp; EXAM 2</td>
</tr>
<tr>
<td>MON</td>
<td>15-Jun</td>
<td>Inverse Functions, Quadratic Functions &amp; Applications</td>
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<tr>
<td>Day</td>
<td>Date</td>
<td>Topic</td>
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<tr>
<td>TUE</td>
<td>16-Jun</td>
<td>Power Functions, Polynomial Graphs, Zeroes of Polynomial Functions</td>
</tr>
<tr>
<td>WED</td>
<td>17-Jun</td>
<td>Rational Functions &amp; Applications</td>
</tr>
<tr>
<td>THUR</td>
<td>18-Jun</td>
<td>Inverses and Radical Functions</td>
</tr>
<tr>
<td>SUN</td>
<td>21-Jun</td>
<td>HOMEWORK DUE &amp; EXAM 3 BY MIDNIGHT</td>
</tr>
<tr>
<td>MON</td>
<td>22-Jun</td>
<td>Exponential and Logarithmic Functions &amp; their Graphs</td>
</tr>
<tr>
<td>TUE</td>
<td>23-Jun</td>
<td>Logarithmic Properties</td>
</tr>
<tr>
<td>WED</td>
<td>24-Jun</td>
<td>Exponential and Logarithmic Equations</td>
</tr>
<tr>
<td>THUR</td>
<td>25-Jun</td>
<td>Exponential and Logarithmic Models</td>
</tr>
<tr>
<td>SUN</td>
<td>28-Jun</td>
<td>HOMEWORK DUE &amp; EXAM 4 BY MIDNIGHT</td>
</tr>
<tr>
<td>MON</td>
<td>29-Jun</td>
<td>Exponential and Logarithmic Models</td>
</tr>
<tr>
<td>TUE</td>
<td>30-Jun</td>
<td>Systems of Equations in 2 variables</td>
</tr>
<tr>
<td>WED</td>
<td>1-Jul</td>
<td>Review for Final</td>
</tr>
<tr>
<td>THUR</td>
<td>2-Jul</td>
<td>HOMEWORK AND FINAL DUE BY MIDNIGHT</td>
</tr>
</tbody>
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Note: Changes in this course schedule may be necessary and will be announced to the class by the Instructor. The assignments and exams shown are directly related to the Student Learning Outcomes described in Section F.

J. COURSE POLICIES

Attendance
Attendance will be taken each class by you participating in the WebEx lecture each day. All lectures will be recorded and posted in Blackboard. The instructor is NOT responsible for informing absent students what was covered in previous classes, homework or any other announcements.

Cell Phone Use
Use of cell phone is prohibited in all circumstances. Please mute your phone during the online sessions. Feedback from too many devices create disruption in the audio feed.

Laptop/Tablet Use
Students are allowed to use their laptops/tablets in class only if it is intended for learning purposes like logging into the class blackboard page.

Missed Exam
There will be no makeup for a missed exam. All exams are online and must be proctored, so a limited window for the exams will be available.

NO late homework will be accepted.
There will be no makeup for a missed final exam. Final exam must be taken per schedule.
Participation
You are expected to participate in the online lectures and seek help during the online office hours. Online tutoring is available by appointment only from CASA. Please see their website to request help.

Other Class Policies
1. Students are expected to print the class notes in Blackboard, view videos and other multimedia available, and work assignments before the due dates.

2. Grades are posted on Blackboard and you are able to view your progress at all times.

3. Knewton Learning is assigned online regularly through Blackboard, and is due as specified. If you have problems accessing the system you have to let me know as soon as possible.

4. Four semester exams will be administered during the semester. The dates are shown on the timeline in this document. Exams are proctored online. Cell phones cannot be used as calculators.

5. The final exam will be comprehensive covering all material covered during the semester.

K. COLLEGE AND UNIVERSITY POLICIES

- Academic Integrity (University)
  University students are expected to conduct themselves in accordance with the highest standards of academic honesty. Academic misconduct for which a student is subject to penalty includes all forms of cheating, such as illicit possession of examinations or examination materials, falsification, forgery, complicity or plagiarism. (Plagiarism is the presentation of the work of another as one’s own work.) In this class, academic misconduct or complicity in an act of academic misconduct on an assignment or test will result in a failing grade.

- Classroom/Professional Behavior
  Texas A&M University-Corpus Christi, as an academic community, requires that each individual respect the needs of others to study and learn in a peaceful atmosphere. Under Article III of the Student Code of Conduct, classroom behavior that interferes with either (a) the instructor’s ability to conduct the class or (b) the ability of other students to profit from the instructional program may be considered a breach of the peace and is subject to disciplinary sanction outlined in article VII of the Student Code of Conduct. Students engaging in unacceptable behavior may be instructed to leave the classroom. This prohibition applies to all instructional forums, including classrooms, electronic classrooms, labs, discussion groups, field trips, etc.

- Statement of Civility
Texas A&M University-Corpus Christi has a diverse student population that represents the population of the state. Our goal is to provide you with a high quality educational experience that is free from repression. You are responsible for following the rules of the University, city, state and federal government. We expect that you will behave in a manner that is dignified, respectful and courteous to all people, regardless of sex, ethnic/racial origin, religious background, sexual orientation or disability. Behaviors that infringe on the rights of another individual will not be tolerated.

**Deadline for Dropping a Course with a Grade of W (University)**

I hope that you never find it necessary to drop this or any other class. However, events can sometimes occur that make dropping a course necessary or wise. Please consult with your academic advisor, the Financial Aid Office, and me, before you decide to drop this course. Should dropping the course be the best course of action, you must initiate the process to drop the course by going to the Student Services Center and filling out a course drop form. Just stopping attendance and participation WILL NOT automatically result in your being dropped from the class. Please consult the Academic Calendar ([http://www.tamucc.edu/academics/calendar/](http://www.tamucc.edu/academics/calendar/)) for the last day to drop a course.

**Grade Appeals (College of Science and Engineering)**

As stated in University Procedure 13.02.99.C0.03, Student Grade Appeal Procedures, a student who believes that he or she has not been held to appropriate academic standards as outlined in the class syllabus, equitable evaluation procedures, or appropriate grading, may appeal the final grade given in the course. The burden of proof is upon the student to demonstrate the appropriateness of the appeal. A student with a complaint about a grade is required to first discuss the matter with the instructor. For complete details, including the responsibilities of the parties involved in the process and the number of days allowed for completing the steps in the process, see University Procedure 13.02.99.C0.03, Student Grade Appeal Procedures. These documents are accessible through the University Rules website at [http://academicaffairs.tamucc.edu/rules_procedures/assets/13.02.99.c0.03_student_grade_appeals.pdf](http://academicaffairs.tamucc.edu/rules_procedures/assets/13.02.99.c0.03_student_grade_appeals.pdf). For assistance and/or guidance in the grade appeal process, students may contact the chair or director of the appropriate department or school, the Office of the College of Science and Engineering Dean, or the Office of the Provost.

**Disability Services**

The Americans with Disabilities Act (ADA) is a federal anti-discrimination statute that provides comprehensive civil rights protection for persons with disabilities. Among other things, this legislation requires that all students with disabilities be guaranteed a learning environment that provides for reasonable accommodation of their disabilities. If you believe you have a disability requiring an accommodation, please call (361) 825-5816 or visit Disability Services in Corpus Christi Hall 116.

If you are a returning veteran and are experiencing cognitive and/or physical access issues in the classroom or on campus, please contact the Disability Services office for
assistance at (361) 825-5816.

http://disabilityservices.tamucc.edu/

- Civil Rights Complaints
  Texas A&M University-Corpus Christi is committed to fostering a culture of caring and respect that is free from discrimination, relationship violence and sexual misconduct, and ensuring that all affected students have access to services. For information on reporting Civil Rights complaints, options and support resources (including pregnancy support accommodations) or university policies and procedures, please contact the University Title IX Coordinator, Sam Ramirez (Samuel.ramirez@tamucc.edu) or Deputy Title IX Coordinator, Rosie Ruiz (Rosie.Ruiz@tamucc.edu) x5826, or visit website at Title IX/Sexual Assault/Pregnancy.

Limits to Confidentiality. Essays, journals, and other materials submitted for this class are generally considered confidential pursuant to the University's student record policies. However, students should be aware that University employees, including instructors, are not able to maintain confidentiality when it conflicts with their responsibility to report alleged or suspected civil rights discrimination that is observed by or made known to an employee in the course and scope of their employment. As the instructor, I must report allegations of civil rights discrimination, including sexual assault, relationship violence, stalking, or sexual harassment to the Title IX Coordinator if you share it with me.

These reports will trigger contact with you from the Civil Rights/Title IX Compliance office who will inform you of your options and resources regarding the incident that you have shared. If you would like to talk about these incidents in a confidential setting, you are encouraged to make an appointment with counselors in the University Counseling Center.

- Statement of Academic Continuity
  In the event of an unforeseen adverse event, such as a major hurricane and classes could not be held on the campus of Texas A&M University–Corpus Christi; this course would continue through the use of Blackboard and/or email. In addition, the syllabus and class activities may be modified to allow continuation of the course. Ideally, University facilities (i.e., emails, web sites, and Blackboard) will be operational within two days of the closing of the physical campus. However, students need to make certain that the course instructor has a primary and a secondary means of contacting each student.

L. OTHER INFORMATION
- Academic Advising
The College of Science & Engineering requires that students meet with an Academic Advisor as soon as they are ready to declare a major. The Academic Advisor will set up a degree plan, which must be signed by the student, a faculty mentor, and the department chair. Meetings are by appointment only; advisors do not take walk-ins. Please call or stop by the Advising Center to check availability and schedule an appointment. The College’s Academic Advising Center is located in Center for Instruction 350 or can be reached at (361) 825-3928.

M. STARFISH EARLY ALERT

The Center for Academic Student Achievement is hosting Starfish, an Early Alert software program for identifying undergraduate students who need assistance from academic support services at Texas A&M University Corpus Christi. The Early Alert program offers convenient early warning identification capabilities and connects students to a collaborative “Success Network” of faculty, advisors, and specialized support staff to address students’ needs and inquiries in real time.

The Early Alert program allows faculty and staff to identify the academic needs of TAMUCC’s undergraduate students at any point during the academic term. Starfish provides early alerts, or “flags”, when raised by faculty or staff; generate emails notifying the student, and members of the student’s “Success Network” of course progress and academic concerns needing to be addressed.

Students can actively engage with members of their “Success Network” at any time. Early Alerts raised for students, however, will elicit an Early Alert response originating from CASA, supplemented by Academic Advising, and may include additional support from campus programs including Student Engagement and Success, Enrollment Management, PASS, and other academic support programs from TAMUCC.

Starting Spring 2014, all Pre-1000, 1000, and 2000 level courses at TAMUCC will be supported by the Early Alert program through the implementation of progress reports. Progress report will help to identify students’ academic needs, including:

- Poor class attendance
- Low class participation
- Low test or quiz scores
- Missing or incomplete work
- Midterm grade below a C
- In danger of Failing

Starfish Connect facilitates meaningful contact between students and their instructors, advisors, and mentors. The system encourages students to engage more deeply in their academic lives by connecting students to the people and resources in place to help student succeed. Students can access Starfish by logging into Blackboard (bb9.tamucc.edu), and selecting the Starfish Button within Blackboard’s Tools.
Q. IMPORTANT DATES

Fall 20XX Important Deadlines/Holidays:

Important dates:

<table>
<thead>
<tr>
<th>Date</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>June 1</td>
<td>First Day of Classes</td>
</tr>
<tr>
<td>June 2</td>
<td>Last day to late register or add a class</td>
</tr>
<tr>
<td>June 16</td>
<td>Midterm Grading</td>
</tr>
<tr>
<td>June 19</td>
<td>Last day to drop a class</td>
</tr>
<tr>
<td>July 1</td>
<td>Last Day to withdraw from the University</td>
</tr>
<tr>
<td>July 3</td>
<td>Last Day of Classes</td>
</tr>
</tbody>
</table>

GENERAL DISCLAIMER

I reserve the right to modify the information, schedule, assignments, deadlines, and course policies in this syllabus if and when necessary. I will announce such changes in a timely manner during regularly scheduled lecture periods.