A. COURSE INFORMATION

Course Number: Math 1314.009
Class Meetings: TTR 11:00 AM – 12:15 PM
Class Location: IH - 156
Course Website: www.bb9.tamucc.edu
Final Exam Final Exam: COMMON FINAL – December 7th 2018 (be there)
Instructor: Dr. Nicolas (Nick) Curiel, Jr.
E-MAIL Address: nicolas.curiel@tamucc.edu
Office Address: CI-314
Office Hours: TTR (12:45 PM – 1:45 PM) & (4:00 PM – 5:00 PM)
M (4:00 PM – 5:00 PM)
Appointments: Scheduled in advance via Email

B. RATIONALE

The rationale for offering a College Algebra course comes from the need to transition incoming high school students, or students from developmental mathematics to college mathematics. By studying and understanding the principles of college algebra, students will be better prepared to study higher mathematic principles. At a minimum, students who successfully complete College Algebra will meet the mathematical requirements of some baccalaureate degrees.

C. COURSE DESCRIPTION

The course continues the development of algebra from Math 0300, Developmental Math. A review of properties of numbers and linear equations and inequalities is included. Topics are quadratic equations and inequalities, graphs, logarithms, and exponential, solutions of polynomial equations, systems of equations, and matrices.

D. PREREQUISITES

Math 0300 (Developmental Math) or placement into Math 1314 (College Algebra).
E. TEXT AND OTHER SUPPLIES REQUIRED

MyLabsPlus access kit for the Textbook is required for homework assignments. You will need to purchase an access code. An electronic version of the Textbook is accessible with the code. www.tamucc.mylabsplus.com, College Algebra by Lial, Hornsby, Schneider, and Daniels, 12th ed., Pearson.

A TI-83/ TI-84 plus or TI equivalent is required for the course. Other models may be used but will NOT be supported by the instructor.

F. COURSE OBJECTIVES/STUDENT LEARNING OUTCOMES

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

1. Polynomials. Chapter R.3
2. Factoring. Chapter R.4
3. Rational expressions. Chapter R.5
4. Rational exponents. Chapter R.6
5. Radical expressions. Chapter R.7
6. Solve linear Equations. Chapter 1.1
7. Solve quadratic equation in one variable. Chapter 1.4
8. Solve problems involving quadratic modeling. Chapter 1.5
9. Solve equations with rational expressions. Chapter 1.6
10. Solve equations with radical expressions. Chapter 1.6
11. Solve polynomial inequalities. Chapter 1.7
12. Solve rational inequalities. Chapter 1.7
13. Solve equations with absolute value expressions. Chapter 1.8
14. Solve absolute value inequalities. Chapter 1.8
15. Solve applied problems using distance and midpoint formulas. Chapter 2.1
16. Find radius, center, domain and range of the circle and graph it. Chapter 2.2
17. Decide whether a relation defines a function. Chapter 2.3
18. Find domain and range of the function from the graph. Chapter 2.3
19. Find domain of the function from the equation. Chapter 2.3
20. Determine values for which a function is increasing, decreasing and constant. Chapter 2.3
21. Graph linear functions. Chapter 2.4
22. Find slope given a description of the line. Chapter 2.4
23. Given an equation, find slope and sketch the graph. Chapter 2.4
24. Find and interpret rate of change. Chapter 2.4
25. Solve problems using point-slope form and slope-intercept form of an equation. Chapter 2.5
26. Graphs of basic functions. Chapter 2.6
27. Graphing techniques including transformations. Chapter 2.7
28. Function operations and composition of functions. Chapter 2.8
29. Graph quadratic functions and solve models about quadratic functions. Chapter 3.1
30. Zero Factorization Theorem. Chapter 3.3
31. General polynomial function graphs and translations. Chapter 3.4
32. Rational function graphs and asymptotes. Chapter 3.5
33. Decide whether a function is one-to-one. Chapter 4.1
34. Determine if functions are inverse of each other. Chapter 4.1
35. Use graph to find inverse function. Chapter 4.1
36. Exponential functions and graphs. Chapter 4.2
37. Logarithmic functions, graphs, and properties. Chapter 4.3
38. Evaluating logarithms and the change-of-base theorem. Chapter 4.4
39. Solve exponential equations. Chapter 4.5
40. Solve logarithmic equations. Chapter 4.5
41. Applications and Models of exponential growth and decay. Chapter 4.6
42. Solve systems of two equations by substitution, elimination, and graphing. Chapter 5.1
43. Solve systems of three equations by elimination and then substitution. Chapter 5.1
44. Matrix solution of linear systems using Gauss-Jordan Method. Chapter 5.2

Upon successful completion of this course, students should be able to:

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.

G. INSTRUCTIONAL METHODS AND ACTIVITIES

The instructional method is a combination of lectures and students activities. Students will be shown models of solutions and will work independently or in groups to demonstrate mastery. Students will use MyLabsPlus independently to complete homework assignments. At the end of the semester, students will show competency by passing all assignments, tests, and the final exam with an overall score of 70% or better.
H. EVALUATION AND GRADE ASSIGNMENT

Student learning outcomes (described in Section F) will be measured via progress on homework, quizzes, tests, and final exam. Every homework problem can be worked multiple times until a correct answer is achieved. Quizzes will be administered in class. The final exam is comprehensive and is written by the Mathematics and Statistics Department. All students will take a common final exam. I do expect you to remember all concepts that I teach as noted on this syllabus.

<table>
<thead>
<tr>
<th>ACTIVITY</th>
<th>% of FINAL GRADE</th>
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<tbody>
<tr>
<td>Homework (20% Late Penalty)</td>
<td>20%</td>
</tr>
<tr>
<td>Quizzes &amp; Participation</td>
<td>15%</td>
</tr>
<tr>
<td>Test 1, 2, 3, &amp; 4 (Drop low score)</td>
<td>45%</td>
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<tr>
<td>Final Exam (Comprehensive)</td>
<td>20%</td>
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Final Course grades will be assigned as follows:

<table>
<thead>
<tr>
<th>WEIGHTED AVERAGE in %</th>
<th>LETTER GRADE</th>
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<tbody>
<tr>
<td>90 - 100</td>
<td>A</td>
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<tr>
<td>80 – 89.99</td>
<td>B</td>
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<tr>
<td>70 – 79.99</td>
<td>C</td>
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<tr>
<td>60 – 69.99</td>
<td>D</td>
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<tr>
<td>Less than 60</td>
<td>F</td>
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I. TENTATIVE COURSE SCHEDULE Fall 2018

<table>
<thead>
<tr>
<th>Week</th>
<th>Section</th>
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</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Aug. 28 – 30</td>
<td>Introduction</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Chapter R.3 – R.7</td>
</tr>
<tr>
<td>2</td>
<td>Sept. 4 – 6</td>
<td>QUIZ 1 (Due Sept. 5th)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1.1</td>
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<tr>
<td></td>
<td></td>
<td>1.4</td>
</tr>
<tr>
<td></td>
<td></td>
<td>LAST DAY TO ADD OR REGISTER FOR A CLASS, TUESDAY, Sept 4th</td>
</tr>
<tr>
<td>3</td>
<td>Sept.11 – 13</td>
<td>QUIZ 2</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1.5 &amp; 1.6</td>
</tr>
<tr>
<td>Week</td>
<td>Dates</td>
<td>Events</td>
</tr>
<tr>
<td>------</td>
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<td>---------------------------------------------</td>
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</tbody>
</table>
| 4    | Sept. 18 – 20 | Review for TEST 1  
|      |             | TEST 1  
|      |             | 1.7  |
| 5    | Sept. 25 – 27 | 1.8  
|      |             | 2.1  
|      |             | 2.2  |
| 6    | Oct. 2 – Oct. 4 | 2.3  
|      |             | QUIZ 3  
|      |             | 2.4  
|      |             | 2.5  |
| 7    | Oct. 9 – Oct. 11 | 2.6  
|      |             | Review for TEST 2  
|      |             | Test 2  |
| 8    | Oct. 16 – Oct. 18 | 2.7  
|      |             | 2.8 (no composition)  
|      |             | 3.1  
|      |             | 3.3  |
| 9    | Oct. 23 – Oct. 25 | 3.4  
|      |             | 3.5  
|      |             | Review for TEST 3  |
| 10   | Oct. 30 – Nov. 1 | TEST 3  
|      |             | 2.8 (composition)  
|      |             | 4.1  
|      |             | 4.2  |
| 11   | Nov. 6 – Nov. 8 | QUIZ 4  
|      |             | 4.3  
|      |             | 4.4  
|      |             | 4.5  
|      |             | LAST DAY TO DROP A CLASS – FRIDAY, November 9th  |
| 12   | Nov. 13 – Nov. 15 | 4.6  
|      |             | 5.1  
|      |             | 5.2  
|      |             | Review for TEST 4  |
| 13   | Nov. 20 - Nov. 22 | TEST 4  
|      |             | READING DAY – Nov. 21  
|      |             | THANKSGIVING HOLIDAY – Nov. 22 & Nov. 23  |
| 14   | Nov. 27 - Nov. 29 | Review for Final  |
| 15   | Dev. 4 – Dec. 6 | Review for Final  
|      |             | LAST DAY TO WITHDRAW FROM UNIVERSITY, TUESDAY, Dec. 4  
|      |             | READING DAY - THURSDAY, Dec. 6  
|      |             | COMMON FINAL – FRIDAY, Dec. 7  |
| 16   | Dec 10 – Dec 13 | No Activity this week – Semester is over for this class  |
J. CLASS POLICIES

Attendance/Tardiness
Attendance will be taken each class. Talking during class time and tardiness are often disruptive to the whole class and are not appreciated. If you are delayed and arrive late please do so quietly. Excessive tardiness, disruptive talking, disruptive behavior or performing activities not related to the class will be counted as absences. The instructor is NOT responsible for informing absent students what was covered in previous classes, homework or any other announcements.

Extra Credit
If an extra credit work is assigned, or extra points are given, the total score should not exceed 100.

Cell Phone Use
Use of cell phone is prohibited in all circumstances. Students using their cell phones in class will be asked to leave the class and will be counted as absent for that day.

Laptop/Tablet Use
Students can use their laptops/tablets in class only if it is intended for learning purposes like logging into the class Blackboard page, or MyLabsPlus website.

Missed Test
There will be no makeup for a missed semester test, unless for special circumstances. There is a 20% penalty for late homework. There will be no makeup for a missed final exam. Final exam must be taken per schedule.

Participation
Students are required to participate in class discussions and problem solving. Students who are absent will not receive credit for participation.

Other Class Policies
1. Students are expected to read the PowerPoint materials in Blackboard, view videos and other multimedia available in MyLabsPlus, and work assignments before the due dates.
2. Homework is assigned online regularly through MyLabsPlus, which can be accessed at tamucc.mylabsplus.com (you need to buy an access code) and is due as specified. If you have problems accessing the system you have to let me know as soon as possible.
3. Four semester tests will be administered during class times. The dates will be announced in class. These dates may be changed with due notice announced during class time. Bring your own calculators. Calculators cannot be shared. Cell phones cannot be used as calculators.
4. The final exam will be comprehensive covering all material covered during the semester.
K. RESPONSIBILITIES

1. You are responsible for the information contained in the university ACADEMIC CALENDAR – 2018. You are responsible for dropping the class if needed. Friday, November 9, 2018 is the last day to drop the class.

2. You are responsible for contacting me, if you miss a due date.

3. You are responsible for seeking help from the Center for Academic Student Achievement, a private tutor, coming to my office hours, or attending a student study group; if you have difficulty with a skill and/or concept.

4. You are expected to comply with the rules in the Student Handbook and Student Code of Conduct, as well as the processes in the latter, which are administered by the Office of Student Affairs. The Student Handbook and Student Code of Conduct are accessible at http://judicialaffairs.tamucc.edu/studentcofc.html.

L. COLLEGE AND UNIVERSITY POLICIES

1. 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.

2. 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.
3. Student 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.

4. 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/) for the last day to drop a course.

5. Grade Appeals (College of Science and Engineering)

As stated in university procedure 13.02.99.C2.01, 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 encouraged 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.C2.01, Student Grade Appeal Procedures. These documents are accessible through the University Rules website at http://studentaffairs.tamucc.edu/student_grade_appeal_procedure.pdf, and the College of Science and Engineering Grade Appeals webpage at http://sci.tamucc.edu/students/GradeAppeal.html. 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.
6. 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. https://disabilityservices.tamucc.edu/

7. 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 using 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.

M. 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 and appointment. The College’s Academic Advising Center is in Center for Instruction 350 or can be reached at (361) 825-3928.

N. GENERAL DISCLAIMER

The instructor reserves the right to modify the information, schedule, assignments, deadlines, and course policies in this syllabus if and when necessary. The instructor will announce such changes in a timely manner during regularly scheduled lecture periods.
O. FAMILY EDUCATIONAL RIGHTS AND PRIVACY ACT (FERPA)

Under FERPA, a student has the right to:

1. Inspect and review their education records

Students can inspect and review their education records within 45 days of the day the University receives a request for access. A student should submit to the registrar, dean, head of the academic department, or other appropriate official, a written request that identifies the record(s) they wish to inspect. The University official will make arrangements for access and notify the student of the time and place where the records may be inspected. If the records are not maintained by the University official to whom the request was submitted, that official shall advise the student of the correct official to whom the request should be addressed.

2. Request to amend their education records

Students can request to amend any of their education records that they believe are inaccurate, misleading, or otherwise in violation of the student’s privacy rights under FERPA. A student who wishes to ask the University to amend a record should write the University official responsible for the record, clearly identify the part of the record the student wants changed and specify why it should be changed. If the University decides not to amend the record as requested, the University will notify the student in writing of the decision and the student’s right to a hearing regarding the request for amendment. Additional information regarding the hearing procedures will be provided to the student when notified of the right to a hearing.

3. Some control over the disclosure of their education records

Students have the right to provide written consent before the University discloses personally identifiable information from their education records, except to the extent that FERPA authorizes disclosure without consent. The University discloses education records without a student’s prior written consent under the FERPA exception for disclosure to school officials with legitimate educational interests. A school official is a person employed by the University in an administrative, supervisory, academic, or research, or support staff position (including law enforcement unit personnel and health staff).

A person or company with whom the University has contracted as its agent to provide a service instead of using University employees or officials (such as an attorney, auditor, or collection agent).

A person serving on the Board of Trustees; or a student serving on an official committee, such as a disciplinary or grievance committee, or assisting another school official in performing his or her tasks.
A school official has a legitimate educational interest if the official needs to review an education record to fulfill his or her professional responsibilities for the University.

Upon request, the University also discloses education records without consent to officials of another school in which a student seeks or intends to enroll.

4. File a complaint if they feel any of these rights have been violated

Students can file a complaint with the U.S. Department of Education concerning alleged failures by the University to comply with the requirements of FERPA. The name and address of the Office that administers FERPA is:

Family Policy Compliance Office
U.S. Department of Education
400 Maryland Avenue, SW
Washington, DC 20202-5901

P. 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

Monday, August 27th
Monday, September 3rd
Tuesday, September 4th

Friday, October 5th

**Friday, November 9th**
Wednesday, November 21st
Thursday, November 22nd
Friday, November 23rd
**Tuesday, December 4th**

**Wednesday, December 5th**
Thursday, December 6th
**Friday, December 7th (1:45 pm - 4:15 pm)**

Classes begin
Labor Day Holiday
Last day to late register or add a class
Last day to apply for December graduation
**Last day to drop a class**
Reading Day – No classes
Thanksgiving Holiday
Thanksgiving Holiday
**Last day to withdraw from the University**
Last Day of classes
Reading Day – No classes
Final Exam

*This syllabus and schedule may be changed at any time by verbal announcement. Attend class every day to be aware of any changes.*