Math 1314.P05 - College Algebra
Department of Mathematics & Statistics
Spring 2020

A. COURSE INFORMATION

Course Number/Section: Math 1314.P05
Class Meetings Time: MWF 12:00 PM – 12:50 PM
Class Location: IH - 267
Course Website: www.bb9.tamucc.edu

B. INSTRUCTOR INFORMATION

Instructor: Dr. Nicolas Curiel, Jr.
Office Location: CI - 314
Office Hours: MWF 10:00 AM – 11:20 AM
Telephone: NA
e-mail: nicolas.curiel@tamucc.edu
Appointments: Scheduled in advance via e-mail

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 AND COREQUISITES

Prerequisites
Math 0300 (Developmental Math) or placement into Math 1314 (College Algebra).

Corequisites
None

E. TEXT AND OTHER SUPPLIES REQUIRED

Required Textbook/Software:
Pearson MyLabsPlus Student Access Kit is mandatory.

Optional Textbook(s) or Other References
College Algebra, 12th Edition by Margaret Lial, John Hornsby and David Schneider published by Pearson. The purchase of this book is optional because an eBook is included in the MyLabsPlus course framework.

Supplies
Scientific (Non-graphing) Calculator. Other calculators will not be supported by the instructor. The website is www.tamucc.mylabsplus.com. Use your Island ID for Username and ask for a password reset.
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.

By the end 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 student 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 60% or better.

H. MAJOR COURSE REQUIREMENTS AND GRADING

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>
</tr>
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<tbody>
<tr>
<td>Four Semester Exams (Drop lowest score)</td>
<td>45</td>
</tr>
<tr>
<td>MLP Homework</td>
<td>20</td>
</tr>
<tr>
<td>Quizzes</td>
<td>15</td>
</tr>
<tr>
<td>Final Exam (Comprehensive)</td>
<td>20</td>
</tr>
</tbody>
</table>

Grades will be assigned according to the following scale.

<table>
<thead>
<tr>
<th>Grade</th>
<th>Percentage Range</th>
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<tbody>
<tr>
<td>A</td>
<td>90%-100%</td>
</tr>
<tr>
<td>B</td>
<td>80%-89.99%</td>
</tr>
<tr>
<td>C</td>
<td>70%-79.99%</td>
</tr>
<tr>
<td>D</td>
<td>60%-69.99%</td>
</tr>
<tr>
<td>F</td>
<td>below 60%</td>
</tr>
</tbody>
</table>
I. COURSE CONTENT/SCHEDULE-Tentative (Subject to change)

<table>
<thead>
<tr>
<th>DATE (BY WEEK)</th>
<th>CONTENTS</th>
<th>TOPIC(S)</th>
<th>ASSIGNMENTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Syllabus discussion; Review Chapter R3 – R7 1.1 Linear Equations</td>
<td>Topic 1</td>
<td>MLP HW Quiz 1</td>
</tr>
<tr>
<td>2</td>
<td>1.2 Applications &amp; Modeling with Linear Equations 1.4 Quadratic Equations</td>
<td>Topic 1</td>
<td>MLP HW Quiz 2</td>
</tr>
<tr>
<td>3</td>
<td>1.5 Applications &amp; Modeling with Quadratic Equations 1.6 Other Types of Equations &amp; Applications</td>
<td>Topic 1</td>
<td>MLP HW Quiz 3</td>
</tr>
<tr>
<td>4</td>
<td>1.7 Inequalities <em>EXAM 1</em> (1.1 – 1.7) 1.8 Absolute Value Equations &amp; Inequalities</td>
<td>Topic 1</td>
<td>MLP HW Quiz</td>
</tr>
<tr>
<td>5</td>
<td>5.1 Systems of Linear Equations 2.1 Rectangular Coordinates &amp; Graphs 2.2 Circles</td>
<td>Topic 2</td>
<td>Quiz 4 MLP HW</td>
</tr>
<tr>
<td>6</td>
<td>2.3 Functions 2.4 Linear Functions 2.5 Equations of Lines &amp; Linear Models</td>
<td>Topic 2</td>
<td>Quiz 5 MLP HW Quiz 6</td>
</tr>
<tr>
<td>7</td>
<td>2.8 Function Operations 2.8 Function Compositions <strong>EXAM 2</strong> (1.8 – 2.8) - (Excl. 2.6 &amp; 2.7)</td>
<td>Topic 2</td>
<td>MLP HW</td>
</tr>
<tr>
<td>8</td>
<td>Spring Break</td>
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<tr>
<td>9</td>
<td>4.1 Inverse Functions 4.2 Exponential Functions</td>
<td>Topic 3</td>
<td>MLP HW Quiz 7</td>
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<tr>
<td>10</td>
<td>4.3 Logarithmic Functions 4.4 Evaluating Logarithms &amp; Change-of-Base Theorem 4.5 Exponential &amp; Logarithmic Equations</td>
<td>Topic 3</td>
<td>MLP HW Quiz 8</td>
</tr>
<tr>
<td>11</td>
<td>4.6 Applications &amp; Models of Exp. Growth &amp; Decay <em><strong>EXAM 3</strong></em> (4.1 – 4.6) 2.6 Graphs of Basic Functions</td>
<td>Topic 3</td>
<td>MLP HW Quiz 9</td>
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<tr>
<td>12</td>
<td>2.7 Graphing Techniques 3.1 Quadratic Functions &amp; Models 3.2. Synthetic Division</td>
<td>Topic 4</td>
<td>MLP HW Quiz 10</td>
</tr>
<tr>
<td>13</td>
<td>3.3 Zeros of the function 3.4 Poly. Func.: Graphs, Applications, &amp; Models</td>
<td>Topic 4</td>
<td>MLP HW Quiz</td>
</tr>
<tr>
<td>14</td>
<td>3.5 Rational Func.: Graphs, Applications, &amp; Models <em><strong>EXAM 4</strong></em> (2.6 - 3.5)</td>
<td>Topic 4</td>
<td>MLP HW Quiz</td>
</tr>
<tr>
<td>15</td>
<td>Final Exam Review</td>
<td></td>
<td></td>
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<tr>
<td>16</td>
<td>FINAL EXAM – Saturday – May 9th @ 11:00 AM</td>
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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. 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.

Late Work and Make-up Exams
There will be no makeup for a missed semester exam, 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.

Extra Credit
If an extra credit work is assigned, or extra points are given, the total scores shall 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 are not allowed to use their laptops/tablets in class. Bring your laptops to class, only, if you need me to clarify a point on the homework.

Food in Class
Food and/or beverages are not allowed in class.

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

Others
1. Students are expected to read the PowerPoint materials and videos 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. 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/) for the last day to drop a course.

- **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://www.tamucc.edu/provost/university_rules/index.html, 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.

- **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/](http://disabilityservices.tamucc.edu/)

- **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.

- **Student Responsibilities**
  1. You are responsible for the information contained in the university ACADEMIC CALENDAR – 2020. You are responsible for dropping the class if needed.
  
  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.
M. IMPORTANT DATES

Monday, January 20th
Tuesday, January 21st
Tuesday, January 28th
Monday-Friday, March 9th - 13th

**Friday, April 10th**
Thursday, April 16th
Tuesday, May 5th
Wednesday, May 6th
Thursday, May 7th

**Saturday, May 9th (11:00 AM - 1:30 PM)**
**Sunday, May 10th (End of Day)**

MLK Holiday
Classes begin
Last day to late register or add a class
Spring Break

**Last day to drop a class**
Last day to apply for Spring graduation
Last day to withdraw from the University
Last Day of classes
Reading Day – No classes

**Final Exam**
**Last Day to Submit Course Work**

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.