MATH 1314: College Algebra Syllabus
Brookhaven College

Instructor Information
Name: Ladan Scott
DCCCD Email: Lscott@dcccd.edu

(Since school is closed due to COVID-19, the only way to contact me is by emailing me.)
Office Phone: 972-860-4679
Office Location: K216
Division Office and Phone: Science, Mathematics, and Engineering.
Room K224. 972-860-4750

Course Information
Course Title: College Algebra
Course Number: MATH 1314
Section Number: 25402
Credit Hours: 3
Class Meeting Time/Location: Online
Certification Date: June 8, 2020
Last Day to Withdraw: June 24, 2020

Course Prerequisites

Required: 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. (3 Lec.)
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
Text:
ISBN: 9780321970008
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.

**Technology:**

**Graphing Calculator**

A TI-Graphing Calculator is required. A TI-83 Plus or TI-84 Plus graphing calculator is recommended. NO TI-89 or TI-92 or TI-NSpire allowed.

**Computer with Internet Access**

This course will run using interactive software called MyLab Math. MyLab Math is an online, textbook-based software where you will complete assignments and tests. Students must have access to a computer with Internet to complete the required work for this course. Standard plug-ins are needed to access this tool. The web address for MyLab Math is [http://www.pearsonmylabandmastering.com](http://www.pearsonmylabandmastering.com).

To enroll into your MyLab Math course you will need a course ID which is **scott35314**. You can request temporary access but will only have access from the first day of the semester through day 14. After this point, you must enter a valid MyLab Math student **access code**. If the access code is not entered by that day, access to all online assignments will be suspended. Students should have permanent access to MyLab Math by the end of the first test.

**Operating Systems and Browsers**

To work successfully with MyLab Math, your computer must match one of the supported browser and operating system (OS) configurations. Most MyLab Math courses support either Windows® or Macintosh® operating systems and a supported version of Microsoft Internet Explorer®, Firefox®, or Safari®. Other requirements vary, depending on the textbook in use for the course. Note that these requirements are only for MyLab Math itself. Players or plug-ins may have their own system requirements.

**Browser Settings**

Pop-up windows must be allowed. If you are using a browser that offers pop-up control or are running an add-on program to control pop-ups, you may need to take steps to allow pop-ups in order to use some features on the site.

Session cookies must be enabled. In most browsers, you can enable cookies for selected domains. JavaScript must be enabled.
**Players and Plug-Ins**

The Browser Check utility will tell you whether or not the necessary players and plug-ins are present on your computer and, when they are present, whether they are up to date. It will also allow you to download the latest versions of the players and plug-ins. (Note that in some courses, the Browser Check may be referred to as the Installation Wizard. Clicking the "Installation Wizard" link will open the Browser Check.) It's best to run the Browser Check or Installation Wizard from inside your MyLab Math course. When you sign into your course, you will see a Browser Check or Installation Wizard link on the Announcements page. You may need to restart your computer when you finish the download and installation.

**Internet Connection**

Cable/DSL, T1, or other high-speed for multimedia content; 56k modem (minimum) for tutorials, Homework, and testing.

**Memory**

64 Mb RAM

**Using Windows 10 or Microsoft Edge**

On a computer running Windows 7 or 8, use Chrome, Firefox, or Internet Explorer. On a computer with Windows 10, use Chrome or Firefox.

**If you experience technical problems while using MyLab Math, you may contact Pearson Support.**

**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>Points</th>
<th>Totals</th>
</tr>
</thead>
<tbody>
<tr>
<td>MyLab Math Homework</td>
<td>29 assignments worth 100 points each</td>
<td>16%</td>
</tr>
<tr>
<td>Tests</td>
<td>4 tests worth 100 points each</td>
<td>64%</td>
</tr>
<tr>
<td>Final Exam</td>
<td>1 final worth 100 points</td>
<td>20%</td>
</tr>
</tbody>
</table>

**TOTAL: 100%**
Final Grade

<table>
<thead>
<tr>
<th>Points</th>
<th>Percentages</th>
<th>Letter Grade</th>
</tr>
</thead>
<tbody>
<tr>
<td>90-100</td>
<td>90-100%</td>
<td>A</td>
</tr>
<tr>
<td>80-89</td>
<td>80-89%</td>
<td>B</td>
</tr>
<tr>
<td>70-79</td>
<td>70-79%</td>
<td>C</td>
</tr>
<tr>
<td>60-69</td>
<td>60-69%</td>
<td>D</td>
</tr>
<tr>
<td>0-59</td>
<td>0-59%</td>
<td>F</td>
</tr>
</tbody>
</table>

Description of Graded Work

**Homework:** Each section covered will have a homework assignment in MyLab Math for the student to complete. Each problem will allow 3 attempts, then the student will be able to use the “Similar Question” feature to get a new problem to attempt. The student will have the ability to get a perfect 100 on every homework assignment with the “Similar Question” feature. Homework will count for **16%** of your course average.

**Tests:** You will have 4 tests each worth 100 points. Each test will be over a chapter or two in the course. Tests will be taken online. Each test will count for **16%** of your course average.

**Final Exam:** The final exam is a 25 question multiple choice test. The final exam will be taken online. The final exam will count for **20%** of the course average.

Contacting Your Instructor

Please make sure that you have updated your email address in eCampus and MyLab Math. I will periodically send out group emails to the class and will use one of these systems. Your main communication with me will be via email. To ensure that you receive a prompt response, *when emailing me, please be sure to include your name somewhere in the body of the email, and write the course for which you are enrolled (MATH 1314) and the section number (25402) in the subject line of all email correspondences.* I will respond to emails with 24 hours, Monday - Friday.

Attendance/Participation

You will NOT be certified as attending class if you have not enrolled in MyLab Math and completed MLM orientation and 1.1-1.2 assignments by **June 7th**. If you are unable to purchase the MLM access code due to financial aid you may request a temporary code.
when you first log in. The code will allow you access for approximately 2 weeks, you will then be required to purchase the code to continue.

Attendance is an important part of your success. Although you will not receive a formal grade for attendance, it will be very difficult to complete the course successfully without viewing the section videos. Viewing these videos is the equivalent to going to class.

**Viewing Lessons and Completing Assignments**

Under the Course Menu, you will find a tab entitled, “Multimedia Library”. The Multimedia Library has several resources for your course, such as the multimedia textbook, lesson videos, animations, learning activities, and power points.

The class will work in the following way.

**STEP 1:** Read the appropriate section in the multimedia textbook. The multimedia textbook will have several icons available to you. There is a “Video Clip” icon, a “You Try It” icon, and an “Animation” icon. The “Video Clip” will explain a concept or the solution of a problem to you, the “You Try It” will allow you to work corresponding problems as you move along, and the “Animation” will present that portion of the lesson in animated form. Use these icons regularly. They will help you to get a good understanding of the material before you attempt the homework.

**STEP 2:** Watch the Section Video Lecture for that section.

**STEP 3:** Do the assigned homework under the button “Assignments and Tests”. I highly recommend that you achieve a score of 70% or better on each homework assignment before you move on to the next assignment. Achieving this score will ensure that you have mastered enough of the material to understand and do well on the next section. **You may improve your homework grades through, June 30 by 11:59 pm.**

**TAKE THE ONLINE TEST.** Click on the button “Assignments and Tests” on the course menu. You will select the current test that you will be taking. You have 180 minutes to take your test in one attempt. You are not allowed to get in and out of your test (you cannot access any other screens – ebook, homework, etc.) while you are taking the test. No make-up tests and extension on deadline will be given, a missed test is a zero grade. It is your responsibility to have a reliable computer with a reliable browser and all the proper plug-ins.
**TAKE THE ONLINE FINAL EXAM.** The final exam is a 25-questions comprehensive exam and you have 180 minutes to take it in one sitting. **The same rules apply as for the tests.**

**Help and Available Resources**
Brookhaven College has free tutoring available online. Students can interact with the tutors using Blackboard audio (microphone), text based chat, and a virtual whiteboard. Online Math Tutoring works the same as it did on campus: Tutoring is free, no appointment is needed and tutoring is provided on a question-by-question basis. Each tutor activates their “Room” during their shift, and their courses of expertise are listed along with their name.

**Enrolling in the Tutor Community**
1. Access eCampus and click the COMMUNITY tab.
2. In the search box type “Brookhaven”
3. From the list of results, hover over BROOKHAVEN TUTORING and click the SMALL ARROW that appears next to the name.
4. Click ENROLL and then on the next screen click SUBMIT.

**Participating in a Tutoring Session**
1. Log into eCampus and click on COMMUNITY and then click BROOKHAVENTUTORING
2. In the menu on the left click on “STEM online Support”
3. Click on “MATH/DMAT, Physics, Engineering”
4. You will see Virtual Rooms of all the tutors that are online. Click “ENTER ROOM” to meet with a tutor. Please be patient as there may already be a student in the room getting help from the tutor. If so, you are welcome to be a silent observer and wait your turn, or else exit and try another available room.

**Academic Dishonesty**
As with any online course, you are expected to do your own work. By starting the work in this course you are agreeing to follow the honor system. Any indication that you are being dishonest will result in receiving an F for the course and/or academic suspension. This is at the instructor’s discretion.

**Other Course Policies**
Incomplete grades are given when an unforeseen emergency prevents a student from completing the work in a course after the Drop Date. To be considered for an incomplete grade, the student must be passing at the time of the Drop Date. The division Dean must approve all “I” grades.
**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.  
[Brookhaven Institutional Policies](#)

**Course Schedule**

The following is a timeline for the course. These deadlines must be followed very closely. **All exams may be taken on or before the required date. Exams will not be accepted after the given deadline. All homework, tests and final exam are due on the due date by 11:59 pm.** All tests and final exam are timed and must be completed in one sitting once they are started. You cannot save and return. **You may improve your homework grades through, June 30 by 11:59 pm.**

<table>
<thead>
<tr>
<th>Day</th>
<th>Topic</th>
<th>Deadline(s)</th>
<th>Calculator Operations</th>
</tr>
</thead>
</table>
| 6/4/20 | Register in MyLab Math and get all plug-ins set up  
READ syllabus  
1.1: Introduction to Graphing | | |
| 6/5/20 | 1.2: Functions and Graphs  
1.3: Linear functions, Slope and Applications  
1.4: Equations of Lines and Modeling | Must register in MyLab Math and complete the Orientation and 1.1-1.2 by Sunday June 7 at 11:59pm. | GRAPH, WINDOW, TRACE, ZOOM, ZSTD, ZERO, TABLE, CALC-VALUE, CALC-ROOT |
| 6/8/20 | 1.5: Linear Equations, Functions, Zeros, and Applications  
2.1 – Increasing, Decreasing, and Piecewise Functions; Applications  
2.2 – The Algebra of Functions | | |
<table>
<thead>
<tr>
<th>Day</th>
<th>Topic</th>
<th>Deadline(s)</th>
<th>Calculator Operations</th>
</tr>
</thead>
<tbody>
<tr>
<td>6/9/20</td>
<td>2.3 – The composition of functions</td>
<td>1.1 - 1.5, 2.1 - 2.5</td>
<td></td>
</tr>
<tr>
<td></td>
<td>2.4 – Symmetry</td>
<td>Homework due by 6/9/20</td>
<td></td>
</tr>
<tr>
<td></td>
<td>2.5 – Transformations</td>
<td></td>
<td></td>
</tr>
<tr>
<td>6/10/20</td>
<td><strong>Practice Test 1</strong></td>
<td></td>
<td><strong>Test 1 due by 6/10/20</strong></td>
</tr>
<tr>
<td></td>
<td><strong>Test 1</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>6/11/20</td>
<td>JIT – Classification of Numbers (p 595, 596)</td>
<td></td>
<td>MAXIMUM, MINIMUM</td>
</tr>
<tr>
<td></td>
<td>3.1 – Complex Numbers</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>3.2: Quadratic Equations, Functions, Zeros, and Models</td>
<td></td>
<td></td>
</tr>
<tr>
<td>6/12/20</td>
<td>3.3 – Analyzing Graphs of Quadratic Functions</td>
<td>3.1 – 3.4 Homework due by 6/12/20</td>
<td></td>
</tr>
<tr>
<td></td>
<td>3.4 - Solving Rational Equations and Radical Equations</td>
<td></td>
<td></td>
</tr>
<tr>
<td>6/15/20</td>
<td><strong>Practice Test 2</strong></td>
<td></td>
<td><strong>Test 2 due by 6/15/20</strong></td>
</tr>
<tr>
<td></td>
<td><strong>Test 2</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>6/16/20</td>
<td>4.1 – Polynomial Functions and Models</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>4.2 – Graphing Polynomial Functions</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>4.3 – Polynomial Division; The Remainder Theorem and the Factor Theorem</td>
<td></td>
<td></td>
</tr>
<tr>
<td>6/17/20</td>
<td>4.4 – Theorems about Zeros of Polynomial Functions</td>
<td>4.1 – 4.5 Homework due by 6/17/20</td>
<td></td>
</tr>
<tr>
<td></td>
<td>4.5 Rational Functions</td>
<td></td>
<td></td>
</tr>
<tr>
<td>6/18/20</td>
<td><strong>Practice Test 3</strong></td>
<td></td>
<td><strong>Test 3 due by 6/18/20</strong></td>
</tr>
<tr>
<td></td>
<td><strong>Test 3</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Day</td>
<td>Topic</td>
<td>Deadline(s)</td>
<td>Calculator Operations</td>
</tr>
<tr>
<td>---------</td>
<td>----------------------------------------------------------------------</td>
<td>----------------------------------------------------------------------------</td>
<td>-----------------------</td>
</tr>
</tbody>
</table>
| 6/19/20 | 5.1 – Inverse Functions
5.2 – Exponential Functions and Graphs |                                                                           | e                     |
| 6/22/20 | 5.3 – Logarithmic Functions and Graphs                                |                                                                           | LN, LOG               |
| 6/23/20 | 5.4 – Properties of Logarithmic Functions                             |                                                                           |                       |
| 6/24/20 | 5.5 – Solving Exponential and Logarithmic Equations                    | NOTE - The last day to drop the course is 6/24/20.                        |                       |
| 6/25/20 | 5.6 – Applications and Models: Growth and Decay; Compound Interest   | 5.1 – 5.6 Homework due by 6/25/20                                          |                       |
| 6/26/20 | **Practice Test 4**
Test 4                                                                 | Test 4 due by 6/26/20                                                      |                       |
| 6/29/20 | 6.1 – Systems of Equations in Two Variables
6.2 – Systems of Equations in Three Variables
6.3 – Matrices and Systems of Equations | 6.1 – 6.3 Homework due by 6/30/20                                         | MATRIX EDIT, *ROW, *ROW+, RREF |
| 6/30/20 | Practice Final Exam                                                   | NOTE - Homework improvements must be made by 6/30/2020 at 11:59.           |                       |
| 7/1/20  | Comprehensive Final Exam                                             | Final Exam due by 7/1/20                                                  |                       |

Please note that the instructor reserves the right to modify this course schedule, assignments, grading procedures, and other related policies as circumstances so dictate. Students will be notified via email of any changes that are to be made.