MATH 1314 - College Algebra

INSTRUCTOR CONTACT INFORMATION

Instructor: Jamie Hagler Barron

Email: jhbarron@lit.edu

Office Hours: Virtual Office Hours

CREDIT
3 Semester Credit Hours (3 hours lecture, 0 hours lab)

MODE OF INSTRUCTION
Online

PREREQUISITE/CO-REQUISITE:
A score of 350 or above on the TSI Assessment placement test OR a "C" or better in TMTH 0375.
This class must be taken in conjunction with TMTH 0214-3A1. (Does not apply to dual credit).

COURSE DESCRIPTION
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.

COURSE OBJECTIVES
Upon completion of this course, the student will 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.

CORE OBJECTIVES
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.

REQUIRED "TEXTBOOK" AND MATERIALS

1. MyMathLab Access – it is <u>best</u> to sign up through Blackboard.
   Required component for this course (think of it as purchasing a TEXTBOOK). You will not be able to do the assignments or tests without it. The easiest way to get to this is through the course in BlackBoard.
   Click on "Go to MyMathLab!" in the Course Content area under Start Here.
   It will take you to where you need to go.
   There is no access code, you must purchase with a Credit Card or Paypal.
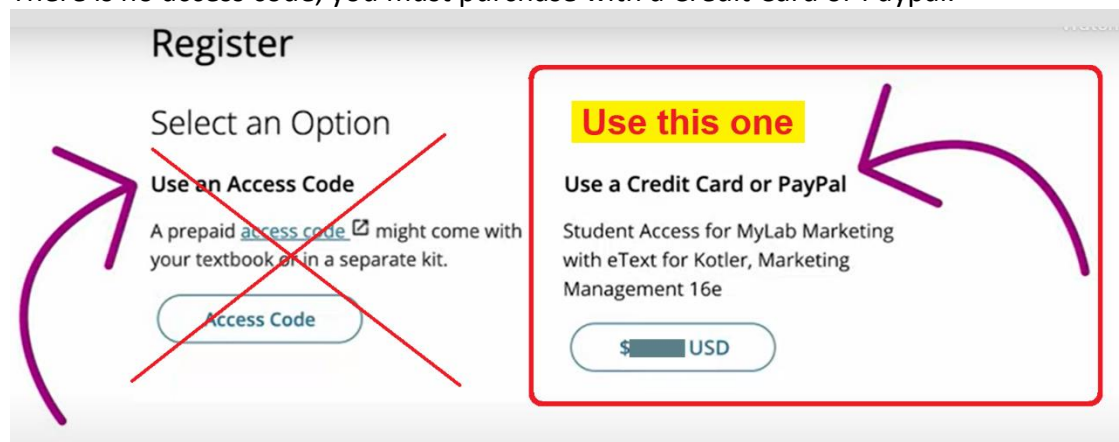
2. You will be responsible for printing out the Lecture Notes and Worksheets, as well as watching the Recordings (located in Blackboard).
3. A basic scientific calculator - Spending more for a calculator doesn't mean it will be easier to use. Usually, the more expensive the calculator, the more functions it does, and the more menus you will have to maneuver through to get it to do what you want.
   You will NOT be allowed to use a graphing calculator or your device's calculator.
4. A binder, notebook paper, graph paper, a folder, pencils, erasers, and a ruler. Optional: highlighters

ATTENDANCE POLICY

This is an online course - you are required to log into the course three times a week.

DROP POLICY

If you wish to drop a course, you are responsible for initiating and completing the drop process by the specified drop date as listed on the College Calendar. If you stop working on the class and fail to drop the course, you will earn an "F" in the course.

COURSE EVALUATION

Final grades will be calculated according to the following criteria:
- Tests 60%
- Assignments 40%

GRADE SCALE   (LIT does not use +/- grading scales)
- 90-100   A
- 80-89   B
- 70-79   C
- 60-69   D
- 0-59   F

COURSE CALENDAR

Platform	MATH 1314 ASSIGNMENTS and TESTS (Online Class)	DUE DATE (subject to change)
Blackboard	Discussion Board: Course Introductions	1/23/2024
Blackboard	College Algebra Review Assignment	
MyMathLab	Orientation/Let's Review Assignment	
MyMathLab	Section 1.1 Assignment	1/30/2024
MyMathLab	Section 1.2 Assignment	
MyMathLab	Section 1.3 Assignment	
MyMathLab	Section 1.4 Assignment	2/6/2024
MyMathLab	Section 1.5 Assignment	
MyMathLab	Section 1.6 Assignment	
MyMathLab	Chapter 1 Test	2/13/2024
MyMathLab	Section 2.1 Assignment	
MyMathLab	Section 2.2 Assignment	2/20/2024
MyMathLab	Section 2.3 Assignment	
MyMathLab	Section 3.1 Assignment	2/27/2024
MyMathLab	Section 3.2 Assignment	
MyMathLab	Section 3.3 Assignment	3/5/2024
MyMathLab	Section 3.4 Assignment	
MyMathLab	Section 3.5 Assignment	
Spring Break		
MyMathLab	Chapter 2/3 Test	3/19/2024
MyMathLab	Sections 4.1-4.2 Assignment	
MyMathLab	Sections 4.3-4.4 Assignment	3/26/2024
MyMathLab	Section 5.1-5.2 Assignment	
MyMathLab	Sections 5.5 Assignment	4/2/2024
MyMathLab	Sections 5.6 Assignment	
MyMathLab	Sections 5.7 Assignment	4/9/2024
MyMathLab	Chapter 4/5 Test	
MyMathLab	Section 6.1 Assignment	4/16/2024
MyMathLab	Section 6.2 Assignment	
MyMathLab	Section 6.3 Assignment	
MyMathLab	Section 6.4 Assignment	4/23/2024
MyMathLab	Section 6.5 Assignment	
MyMathLab	Section 6.6 Assignment	
MyMathLab	Section 8.2 Assignment	4/30/2024
MyMathLab	Chapter 6/8 Test	
MyMathLab	Core Assessment Activity	5/2/2024
MyMathLab	Final Review	
MyMathLab	Final Exam	5/2/24-5/7/24

STUDENT EXPECTED TIME REQUIREMENT

For every hour in class (or unit of credit), students should expect to spend at least two to three hours per week studying and completing assignments. For a 3-credit-hour class, students should prepare to allocate approximately six to nine hours per week outside of class in a 16-week session OR approximately twelve to eighteen hours in an 8-week session. Online/Hybrid students should expect to spend at least as much time in this course as in the traditional, face-to-face class.

ACADEMIC DISHONESTY

Students found to be committing academic dishonesty (cheating, plagiarism, or collusion) may receive disciplinary action. Students need to familiarize themselves with the institution's Academic Dishonesty Policy available in the Student Catalog & Handbook at http://catalog.lit.edu/content.php?catoid=3&navoid=80#academic-dishonesty.

TECHNICAL REQUIREMENTS

The latest technical requirements, including hardware, compatible browsers, operating systems, etc. can be online at https://lit.edu/online-learning/online-learning-minimum-computer-requirements. A functional broadband internet connection, such as DSL, cable, or WiFi is necessary to maximize the use of online technology and resources.

DISABILITIES STATEMENT

The Americans with Disabilities Act of 1990 and Section 504 of the Rehabilitation Act of 1973 are federal anti-discrimination statutes that provide comprehensive civil rights for persons with disabilities. LIT provides reasonable accommodations as defined in the Rehabilitation Act of 1973, Section 504 and the Americans with Disabilities Act of 1990, to students with a diagnosed disability. The Special Populations Office is located in the Eagles' Nest Room 129 and helps foster a supportive and inclusive educational environment by maintaining partnerships with faculty and staff, as well as promoting awareness among all members of the Lamar Institute of Technology community. If you believe you have a disability requiring an accommodation, please contact the Special Populations Coordinator at (409)-951-5708 or email specialpopulations@lit.edu. You may also visit the online resource at Special Populations - Lamar Institute of Technology (lit.edu).

STUDENT CODE OF CONDUCT STATEMENT

It is the responsibility of all registered Lamar Institute of Technology students to access, read, understand and abide by all published policies, regulations, and procedures listed in the *LIT Catalog and Student Handbook*. The *LIT Catalog and Student Handbook* may be accessed at www.lit.edu. Please note that the online version of the *LIT Catalog and Student Handbook* supersedes all other versions of the same document.

STARFISH

LIT utilizes an early alert system called Starfish. Throughout the semester, you may receive emails from Starfish regarding your course grades, attendance, or academic performance. Faculty members record student attendance, raise flags and kudos to express concern or give praise, and you can make an appointment with faculty and staff all through the Starfish home page. You can also login to Blackboard or MyLIT and click on the Starfish link to view academic alerts and detailed information. It is the responsibility of the student to pay attention to these emails and information in Starfish and consider taking the recommended actions. Starfish is used to help you be a successful student at LIT.

ADDITIONAL COURSE POLICIES/INFORMATION

The instructor does not have a physical office at Lamar Institute of Technology.
Contact the instructor through Blackboard or by email: jhbarron@lit.edu.
Instructor will respond within 24 hours.

Virtual office hours are by appointment only:
If you need help, send instructor an email at jhbarron@lit.edu. You will receive a link and the time for a Collaborate Video Conferencing meeting.

Technical assistance:
- For technical issues - helpdesk@lit.edu (409) 839-2074
- For online academic concerns - distanced@lit.edu (409) 880-7432
- Pearson Publishing (for MyMathLab problems)
  https://mlm.pearson.com/northamerica/mymathlab/students/support/index.html

Check Blackboard **OFTEN** for Announcements and due dates.