MATH 116 - D01 College Algebra   Room: COOH 3117   summer 2017

Instructor: Manoj Lamichhane   Office: COOH 4109   Phone: 2707453180

 Class time: MTWRF 10:30 am - 12:10 pm**,**   Email **manoj.lamichhane@wku.edu**   **Office Hours:** TBA

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Course Description:

This course provides students with the ability to understand and apply mathematical skills and concepts. Math 116 students will be able to: use fundamental mathematical reasoning principles; interpret information presented in tables or graphical displays; use graphical, symbolic, and numeric methods to solve practical problems; and apply an appropriate mathematical model to the problem to be solved. The content of the course will include:

- Introduction to Functions
- Linear and Quadratic Functions
- Polynomial and Rational Functions
- Exponential and Logarithmic Functions
- Systems of Equations

Learning Objectives:

This course fulfills the Quantitative Reasoning requirement in the Foundations category of WKU's Colonnade program. As part of that program, Math 116 has the following learning objectives:

Students will demonstrate the ability to:

1. Interpret information presented in mathematical and/or statistical forms.
2. Illustrate and communicate mathematical and/or statistical information symbolically, visually and/or numerically.
3. Determine when computations are needed and execute the appropriate computations.
4. Apply an appropriate model to the problem to be solved.
5. Make inferences, evaluate assumptions, and assess limitations in estimation modeling and/or statistical analysis.

Prerequisites: At least one of the following criteria must be met to enroll in Math 116:

- Math ACT score of 22 or better   Math SAT score of 510 or better
- A score of 14 or better on the WKU Math Placement Exam within the last year
- A score of 14 or better on the KYOTE College Algebra Exam within the last year
- A score of 50 or better on the COMPASS (College Algebra) within the last year
- Completion of DMA 096C with a grade of C or better

Textbook: A Graphical Approach to College Algebra, 6th Edition, 2015, Hornsby, Lial, Rockswold.

MyMathLab access code is required for tests, quizzes, and homeworks.

Your courseID: lamichhane63153

- *Textbook is* *optional; the entire content of the textbook can be accessed online within the MyMathLab program.*
- **A subscription to MyMathLab is required**. To access homework, test and other materials first you need to create an account for Mymathlab (separate instruction will be sent or pdf will be attached here). You can access for free using temporary access code for first three weeks. Eventually you will have to purchase an access code.

- **Each student will need a graphing calculator for use in class and for assignments.** TI-83 and TI-84 are preferred, and instruction for these models will be given. TI-89s and TI-92s are prohibited. Cell phone calculators are prohibited!

Homework: Homework will be assigned daily with specific deadlines for completion. A review for each unit exam will be included in the homework assignments. A grade of at least 90% will be necessary on each such unit review and on the final review before a student is allowed to take the corresponding exam. *Organizing and keeping the paper work you used to complete your homework will be beneficial in preparing for exams.*

Quizzes: Both announced and un-announced quizzes may be given. These quizzes may be traditional paper-and-pencil quizzes or online quizzes delivered via MyMathLab.

Exams: There will be four exams during the semester. A comprehensive final exam will be given.

Important dates: **Thursday, August 10, 10:30 am** **Final Exam**

Course Grade:

A weighted average for this course will be calculated using the following scale.	Letter grades will be assigned from the weighted average using the following grading scale.
Homework 10%	**A 90 – 100**
Quizzes 10%	**B 80 - 89**
Module Exams 60%	**C 65 - 79**
Final Exam 20%	**D 55 - 64**
	F 55 and below

Note: Although students may earn a D with a grade of 55 to 64, please be aware that many courses require a C in Math 116 as a prerequisite and several majors require a C in Math 116 to satisfy a general education requirement in mathematics.

Credit for a course in which a grade of "F" has been received can be earned only by repeating the course in residence unless prior approval is given by the head of the department in which the course was taken.

ADA Statement: In compliance with university policy, students with disabilities who require accommodations (academic adjustments and/or auxiliary aids or services) for this course must contact the Student Accessibility Resource Center (SARC) in Downing Student Union 1074. The SARC telephone number is (270) 745-5004; TTY is (270) 745-3030. Per university policy, please DO NOT request accommodations directly from the professor or instructor without a letter of accommodation from the SARC.

Academic Dishonesty: Students who commit any act of academic dishonesty may receive from the instructor a failing grade in that portion of the coursework in which the act is detected or a failing grade in the course without possibility of withdrawal. The faculty member may also present the case to the Office of Judicial Affairs for disciplinary sanctions.

Responsibilities of Students: Student are expected to attend each class session. If you attend class, it is assumed that you will participate actively by asking questions and participating in discussions. You are expected to prepare for class, to have read the indicated sections

prior to the class session and have your homework completed by the indicated date. This is three credit course and you should expect to spend 20 to 30 hours per week outside of class for the course. If you miss a class, it is your responsibility to find out what you missed including any announcements, which were made.

Class Structure: In class students will be asked to answer multiple choice questions and or to work on board to contribute to their attendance and to engage in active learning.

The student cannot simply stop attending and then show up during the last week of classes and ask (or even demand) an IN (incomplete) grade. That is not the purpose of an IN. IN's are to be given only when a student missed a part of the class or final for an entirely legitimate reason. If a student stop attending, it is their responsibility to appraise their instructor promptly and in an ongoing fashion of a change in their circumstances or else they can expect to be given a failing grade.

Topics to be covered:

Exam I	Exam II
• Linear function, Equations, and Inequalities. • Advance Factoring • Analysis of Graph	• Polynomial Functions
Exam III	**Exam IV**
• **Rational Functions**	• **Inverse, Exponential, and Logarithmic Functions** • **System of Equations** • **Solution of Linear System in Three variables**
Final Exam	

The instructor reserves the right to change the content of the course materials if he perceives a need due to postponement of class cause by inclement weather, instructor illness, etc., or due to pace of the course.

MyMathLab®

To register for Math116_Summer_2017_July10_Aug10:

1. Go to www.pearsonmylabandmastering.com.
2. Under Register, select **Student**.
3. Confirm you have the information needed, then select **OK! Register now**.
4. Enter your instructor's course ID: lamichhane63153, and **Continue**.
5. Enter your existing Pearson account **username** and **password** to **Sign In**.

   You have an account if you have ever used a Pearson MyLab & Mastering product, such as MyMathLab, MyITLab, MySpanishLab, MasteringBiology or MasteringPhysics.

   ➤ If you don't have an account, select **Create** and complete the required fields.
6. Select an access option.
   ➤ Enter the access code that came with your textbook or was purchased separately from the bookstore.
   ➤ Buy access using a credit card or PayPal account.
   ➤ If available, get temporary access by selecting the link near the bottom of the page.
7. From the You're Done! page, select **Go To My Courses**.
8. On the My Courses page, select the course name **Math116_Summer_2017_July10_Aug10** to start your work.

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5. Enter an access code or buy access with a credit card or PayPal account.