MATH 1111 - Section 07 - College Algebra

**Hours Credit:** 3 hours

**Prerequisites:** None

Math Department recommends a minimum ALEKS Placement score of 46 to be successful in the class.

**COURSE INSTRUCTOR**

**Instructor:** Brian Brodsky  
**Office:** 106 C Boyd Building  
**Email:** BBrodsky@westga.edu: Please send all email correspondences to this email address (Please do not send email through CourseDen).  
**Phone:** 678-839-5313

**Class Meetings:** MW 9:30 am – 10:45 am in Boyd 302

**Office Hours**

Tuesday: 11am – 12pm and 1pm – 3pm  
Thursday: 11am – 12pm and 1pm – 3pm  
Friday: 9am – 11am and 2pm – 3pm

**REQUIRED COURSE MATERIALS**

**TEXT:** *College Algebra and Trigonometry, by Julie Miller and Donna Gerken (McGraw Hill Education)*

**ALEKS:** All students in MATH 1111 are required to have an ALEKS Account. Go to www.aleks.com to purchase an account. The course code for this section is YT4YA-KNAV

**Courses Description**

This course is a functional approach to algebra that incorporates the use of technology. Emphasis will be placed on the study of functions, and their graphs, inequalities, and linear, quadratic, piece-wise defined, polynomial, rational, exponential and logarithmic functions. Appropriate applications will be included.

**Learning Outcomes**

Students should be able to demonstrate:

1. An understanding of the equations of circles and lines
2. An understanding of functions and how to graph functions
3. An understanding of operations on functions including function composition
4. An understanding of polynomial graphs, including intercepts and end-behavior
5. An understanding of how to find the zeros of a polynomial and how to factor polynomials
6. An understanding of inverse functions and how to find them graphically and algebraically
7. An understanding of the properties of exponential and logarithmic equations
8. An understanding of how to solve exponential and logarithmic equations
9. An understanding of how to solve a system of equation

COURSE ASSESSMENT

Students’ mastery of course learning outcomes will be assessed using the following methods:

Exams: In addition to the final exam, there will be 4 in-class exams. Please see the attached course outline for the dates of these exams. Students may be able to reschedule exams if they have informed the instructor at least one class meeting prior to the exam of their situation. Students will not be allowed to make up missed exams.

Quizzes: There will be in-class quizzes on most Wednesdays. Students will not be allowed to reschedule these quizzes. There will be a “Quiz Make-up Day” where students will be allowed to makeup, or replace, up to two of their quiz grades. Please see the attached course outline for the dates of our quizzes and “Quiz Make-up Day.”

ALEKS: ALEKS is an asynchronous online learning environment. The environment is designed to be competency based, meaning that you are able to proceed through the content and gain credit as you gain competency, or mastery, of the content. You will need to purchase an access code to register for our course in ALEKS (you will need to use our course code at the top of this syllabus to register for our class). Please see the file entitled ALEKS Student Registration Guide on CourseDen for detailed instructions on how to get started with ALEKS.

Final Exam: There will be no make-up Final Exam. Students needing accommodations for the final exam must notify the instructor at least one week prior to the scheduled exam date.

ASSESSMENT GRADING:

Exams: 50% of final grade.

Quizzes or ALEKS (The higher grade of the two will be used): 25% of final grade.

Final Exam: 25% of final grade.

Grading Scale:

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<tr>
<th>Grade</th>
<th>Percentage</th>
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<tbody>
<tr>
<td>90% - 100%</td>
<td>A</td>
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<tr>
<td>80% - 89%</td>
<td>B</td>
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<tr>
<td>70% - 79%</td>
<td>C</td>
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<tr>
<td>60% - 69%</td>
<td>D</td>
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<tr>
<td>&lt;60%</td>
<td>F</td>
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OTHER COURSE INFORMATION

Calculators: Graphing calculators equivalent to the TI 83, 84, 85, and 86 will be allowed on the exam, as will scientific calculators. The TI-89 and other equivalent calculators will not be allowed.

CourseDen: Course materials will be posted on CourseDen. Please check CourseDen often for updates. You may log in to CourseDen at www.westga.edu or http://webct.westga.edu. If you are having problems logging into CourseDen, please go to http://uwgonline.westga.edu/students.php or call 678-839-6248

COURSE POLICIES AND INFORMATION

University Policies and Academic Support
Please carefully review the following Common Language for all university course syllabi at the link:

https://www.westga.edu/UWGSSyllabusPolicies/

It contains important material pertaining to university policies and responsibilities. Because these statements are updated as federal, state, university, and accreditation standards change, you should review the information each semester.

Academic Honesty
You are expected to achieve and maintain the highest standards of academic honesty and excellence as described in the Undergraduate Catalog. In short, be responsible and do your own work. Definitions of academic dishonesty are defined in the student handbook: www.westga.edu/handbook/

Disabilities Act/Accessibility for the Course
If you are a student whom is disabled as defined under the Americans with Disabilities Act and require assistance or support services, please notify me and provide me with a copy of your packet from Student Services. The university will provide you with resources for any audio/visual needs that you may have with the learning management system or course content. Please contact UWG Accessibility Services for more information.

Student Conduct
Students are expected to abide by the guidelines detailed in the university catalog. Respect and courtesy are required of all students while in the classroom. The following is also mandatory:
<table>
<thead>
<tr>
<th>Date</th>
<th>Topics/Activities</th>
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| Wednesday, Aug. 9th | • Exponent Rules  
                           • Simplifying Square Roots |
| Monday, Aug. 14th | • Factoring and Simplifying Polynomials                |
| Wednesday, Aug. 16th | • Ratios of Polynomials  
                              • Quiz                      |
| Monday, Aug. 21st | • Linear and Rational Equations                       |
| Wednesday, Aug. 23rd | • Applications of Linear and Rational Equations  
                                    • Quiz                      |
| Monday, Aug. 28th | • More Equations and Applications                     |
| Wednesday, Aug. 30th | • Linear, Compound, and Absolute Value Inequalities  
                               • Quiz                      |
| Wednesday, Sep. 6th | • Exam 1                                               |
| Monday, Sep. 11th | • Rectangular Coordinate System                      |
| Wednesday, Sep. 13th | • Functions and Relations                            |
| Monday, Sep. 18th | • Linear Equations in 2 Variables                     |
| Wednesday, Sep. 20th | • Applications of Linear Equations  
                              • Quiz                      |
| Monday, Sep. 25th | • Transformations                                     |
| Wednesday, Sep. 27th | • Algebra of Functions  
                              • Quiz                      |
| Monday, Oct. 2nd  | • Exam 2                                               |
| Wednesday, Oct. 4th | • Quadratic Functions  
                               • Intro to Polynomials      |
| Monday, Oct. 9th  | • Division of Polynomials                             |
| Wednesday, Oct. 11th | • Zeros of Polynomials  
                               • Quiz                      |
| Monday, Oct. 16th | • Variation                                           |
| Wednesday, Oct. 18th | • Systems of Equations in 2 Variables  
                               • Quiz                      |
| Monday, Oct. 23rd | • Exam 3                                               |
| Wednesday, Oct. 25th | • Inverse Functions                                 |
| Monday, Oct. 30th | • Exponential Functions                               |
| Wednesday, Nov. 1st | • Logarithmic Functions  
                               • Quiz                      |
| Monday, Nov. 6th  | • Properties of Logs                                  |
| Wednesday, Nov. 8th | • Exponential and Logarithmic Equations  
                               • Quiz                      |
| Monday, Nov. 13th | • Modeling with Exponentials and Logarithms           |
| Wednesday, Nov. 15th | • Exam 4                                               |
| Monday, Nov. 27th | • Make-up Quiz Day                                   |
| Wednesday, Nov. 29th | • Review for Final Exam                             |
IMPORTANT DATES:

First Day of Class: Wednesday, August 9th
Drop Ends: Friday, August 11th
Last Day to Withdrawal with W: Friday, September 29th
Last Day of Class: Friday, December 1
Final Exam Period: Wednesday, December 6th, 8am – 10am
No classes:
  Monday, September 4th (Labor Day)
  Thursday, October 5th (Fall Break)
  Friday, October 6th (Fall Break)
  November 20th-24th (Thanksgiving)