Course: Math 1111 College Algebra
Semester: Spring 2015

Instructor: Mary F. King
Office: Boyd Rm 111A
Phone: 678 – 839 – 6489 (Math Office)
E-mail: mking@westga.edu

Class Hours:  T and Th  11:00 a.m. – 12:20 p.m.  Boyd Rm 302  
             T and Th  12:30 p.m. – 1:50 p.m.  Boyd Rm 301

Office Hours:  
              T  2:00 p.m. – 3:00 p.m.  Boyd Rm 111A  
              Th  2:00 p.m. – 3:00 p.m.  Boyd Rm 111A

Appointments are available upon request.

Textbook:  Precalculus, 5e, by Robert Blitzer (Pearson/Prentice Hall)
Calculator:  A graphing calculator is required. (You may use TI-83, 84, 85 or 86, but
            TI-89 and TI-92 calculators are not allowed)

Attendance:  Regular class attendance is necessary for success in this course. You are
             expected to attend each class session. A maximum of five absences (for any reason) will
             be permitted. Excessive absences (more than five) may result in a failing grade in the
             course. You are expected to arrive on time and be prepared to remain in class the entire
             class period. If you arrive after roll has been called, you must notify the instructor at the
             end of class. Any exceptions to the attendance policy must be approved by the instructor.
             Please do not bring children and/or visitors to class with you.

Homework:  Class time will primarily be spent on lectures. Assignments will be made
            based on the topics covered during each class. The homework is for your benefit. It will
            allow you to practice the concepts discussed in class. If you have difficulty with
            assignments, you should take advantage of the services provided through the Math
            Tutoring Center or Center for Academic Success (formerly EXCEL Center) at no
            cost to you. If you miss class, it is your responsibility to secure the assignment and/ or
            notes from a classmate and get the assignment completed.

Tests:  Four tests will be given at 100 points each. A make-up test may only be given in
        specific situations (not because you're not prepared). If you miss a test, it is your
        responsibility to contact me immediately. You must provide documentation when
        requested.

Quizzes:  Five quizzes will be given at 10 points each. Make-up quizzes will not be
          given. Quizzes may or may not be announced in advance.

All tests, quizzes and homework that will be turned in must be completed in pencil.
Work submitted in ink will receive a grade of zero.
**Final Exam:** A comprehensive final exam will be given at the end of the semester that will count 150 points. The final exam is a 40 question multiple choice test. You may access practice final exam questions and videos at: [www.westga.edu/~math1111/](http://www.westga.edu/~math1111/)

**Possible Points:**

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<tbody>
<tr>
<td>Tests</td>
<td>400</td>
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<td>Quizzes</td>
<td>50</td>
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<td>Final Exam</td>
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<td><strong>Total</strong></td>
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**Extra Credit Points:** You will have an opportunity to earn up to 30 additional points during the semester for completing specific homework problems and/or assignments in CourseDen. I will announce in class a task to be completed and a completion deadline. The number of points may vary depending on the task.

**Grade:** Points available 600

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<tr>
<td>540 - 600</td>
<td>A</td>
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<td>420 - 479</td>
<td>C</td>
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<td>D</td>
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<td>below 360</td>
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**Withdrawal:** The last day to withdraw from this course with a grade of W is Friday, February 27th before midnight. Any student who withdraws after this deadline will receive a grade of WF which calculates as an F into your G.P.A. Please note that failure to attend class does not automatically constitute a withdrawal.

**Cell Phones:** Please turn phones off or use the silent feature when you are in the classroom. Please do not text or otherwise use your phone during class. Repeated violations may result in dismissal from class. All cell phones (and any other electronic devices) must be put away during all quizzes, tests and final exam.

**Cheating:** Cheating is unacceptable and anyone caught cheating will receive a failing grade in the course. Please read the information regarding UWG Honor Code and other pertinent information at either of the following websites:

http://www.westga.edu/assetsDept/vpaa/Common_Language_for_Course_Syllabi.pdf

http://tinyurl.com/UWGSSyllabusPolicies

**Supplemental Instruction:** You will have the option to participate in a student led review and study session weekly. These sessions can help you learn how to study and prepare for the course and improve your test scores.
Important Dates:

M  1/19  Dr. Martin Luther King Holiday
F  2/27  Deadline to withdraw with a W
M – F  3/16 – 3/20  Spring Break
T  4/21  Final Exam (11:00 class)  11:00 a.m. – 1:30 p.m.
Th  4/23  Final Exam (12:30 class)  11:00 a.m. – 1:30 p.m.

Resources

Math Tutoring Center  Boyd Rm 205
M – W  9:00 a.m. – 8:00 p.m.
Th  9:00 a.m. – 7:00 p.m.
F  9:00 a.m. – 3:00 p.m.

Center for Academic Success  UCC Rm 200
Call for a tutoring appointment:  678 – 839 – 6280
www.westga.edu/excel/

Counseling Center and Accessibility Services  Row Hall Rm 123
Call for a counseling appointment:  678 – 839 – 6428
www.westga.edu/counseling/  or  www.westga.edu/accessibility

Math Website:  www.interactmath.com

• CourseDen http://uwgonline.westga.edu

• UWG|Online

• Email: online@westga.edu

• Call: 678-839-6248 or 1-855-933-UWGO (8946)

24-Hour Help: 1-855-772-0423 or search http://D2L.help.view.usg.edu
Course Number: MATH 1111

Course Title: College Algebra

Hours Credit: 3 hours

Prerequisites: None

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.

Text: Precalculus, 5e, by Robert Blitzer (Pearson/Prentice Hall)

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 equations

The final exam for MATH 1111 will be at the regularly scheduled time, as listed in the SCOOP.
## College Algebra Course Overview

Textbook: *Precalculus, 5e, by Robert Blitzer*

**Section** | **Topics** |
---|---|
**P** | **Prerequisites: Fundamental Concepts of Algebra** |
| P.2 | Exponents and Scientific Notation |
| P.3 | Radicals and Rational Exponents |
| P.5 | Factoring Polynomials |
| P.6 | Rational Expressions |
| P.7 | Equations |
| P.9 | Linear Inequalities and Absolute Value Inequalities |

**1** | **Functions and Graphs** |
| 1.2 | Basics of Functions and Their Graphs |
| 1.3 | More on Functions and Their Graphs |
| 1.4 | Linear Functions and Slope |
| 1.5 | More on Slope |
| 1.6 | Transformations of Functions |
| 1.7 | Combinations of Functions; Composite Functions |
| 1.8 | Inverse Functions |
| 1.9 | Distance and Midpoint Formulas; Circles |

**2** | **Polynomial and Rational Functions** |
| 2.1 | Complex Numbers |
| 2.2 | Quadratic Functions |
| 2.3 | Polynomial Functions and Their Graphs |
| 2.4 | Dividing Polynomials; Remainder and Factor Theorems |

**3** | **Exponential and Logarithmic Functions** |
| 3.1 | Exponential Functions |
| 3.2 | Logarithmic Functions |
| 3.3 | Properties of Logarithms |
| 3.4 | Exponential and Logarithmic Equations |
| 3.5 | Exponential Growth and Decay; Modeling Data |

**7** | **Systems of Equations and Inequalities** |
| 7.1 | Systems of Linear Equations in Two Variables |
| 7.2 | System of Linear Equations in Three Variables |