MATH 1113
Precalculus

Course Instructor:  Instructor: Mr. Kyle Carter
Office: Boyd 104 D
Phone: (678)-839-5134 (Office)
Email: kylec@westga.edu

Course Information:  Class: MATH 1113 - 04 (10448 - 4 credit hours)
Class Time: MW 3:30pm-4:50pm  Calloway 205
               F 3:00pm-3:52pm  Boyd 303
Room: Calloway 205/Boyd 303

Office Hours:  Boyd 104 D: Monday: 2:00pm – 3:30pm (or by appointment)
               Wednesday: 2:00pm – 3:30pm
               Friday: 10:00am – 12:00pm and 2:00pm – 3:00pm
Boyd 205 (Math Tutoring Center): Monday: 10:00am-11:00am
                                Wednesday: 10:00am-11:00am

Course Description:  This course is designed to prepare students for calculus, physics, and related technical subjects.
Topics include an intensive study of algebraic and transcendental functions accompanied by analytic geometry. Credit for this course is not allowed if the student already has credit for MATH 1634.

Learning Outcomes:  Students should be able to demonstrate:
1. An understanding of functions and how to graph functions
2. An understanding of operations on functions including function composition
3. An understanding of polynomial and rational graphs, including intercepts and asymptotes
4. An understanding of how to find the zeros of a polynomial and how to factor polynomials
5. An understanding of inverse functions and how to find them graphically and algebraically
6. An understanding of the properties of exponential and logarithmic equations
7. An understanding of how to solve exponential and logarithmic equations
8. An understanding of how to find the values of the trigonometric functions from right triangles and circles
9. An understanding of how to graph the trigonometric functions
10. An understanding of how to prove trigonometric identities
11. An understanding of how to use the sum, difference, double-angle and half-angle formulas for sine and cosine
12. An understanding of how to solve triangle using the law of sines and law of cosines
13. An understanding of polar coordinates and graphs
14. An understanding of how to analyze and solve applied problems

                   Calculator: A graphing calculator is required for this course (preferably one of the TI-83 or 84
                                  models).

Grading:  Exams: There will be 4 exams for this course. We will review for each exam the class period before
          the exam is given. Each test is worth 12.5% of your grade, so all together, the exams are worth 50% of
          your final grade.

          Exam 1: February 3  (Wednesday)
          Exam 2: February 29  (Monday)
          Exam 3: March 28  (Monday)
          Exam 4: April 20  (Wednesday)

Class Participation and Homework: There will be daily (short) assignments in class, and there will be
                                 homework assigned regularly. This is designed to challenge you and help you stay active
                                 throughout this course. You can miss up to 5 daily assignments before your grade is adversely
                                 affected. Class participation (daily assignments average after dropping the lowest 5 grades) will
                                 count for 12.5% of your final grade, and homework will count for 12.5% of your final grade.
**Final:** There is a cumulative final that is worth 25% of your final grade. We will review for the final as time permits before you take it.

**Location:** Calloway 205  
**Time:** Wednesday, April 27, 2:00pm-4:30 pm

Final grades determined as follows:

<table>
<thead>
<tr>
<th>Percentage</th>
<th>Grade</th>
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<tbody>
<tr>
<td>89.5% and higher</td>
<td>A</td>
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<tr>
<td>79.5% to 89.4%</td>
<td>B</td>
</tr>
<tr>
<td>69.5% to 79.4%</td>
<td>C</td>
</tr>
<tr>
<td>60% to 69.4%</td>
<td>D</td>
</tr>
<tr>
<td>Below 60%</td>
<td>F</td>
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**Make-up policy:** There are no make-ups for daily assignments, so it is very important that you come to class every day. You are expected to keep up with learning the material each week, complete assignments by the due dates, and get help when needed. Make-ups for tests may be granted with a valid documented excuse, and only if you notify me before or on the day of the test.

**Extra-credit policy:** There will be no extra credit given in this course. My desire is to make this course so accessible that extra credit is not needed. This course will still be challenging, but there are a number of free resources at your disposal, outlined at the end of this syllabus. Please utilize them.

**Attendance Policy:** There is no attendance policy in this class. However, I will assign in-class daily assignments every day, so you must come to class to succeed. If you ever need to miss class, you can contact me and I will let you know what you missed and what you should study to stay on track.

**Last Date to Withdraw:** *Thursday, March 3rd* Any student who withdraws after this date will receive a grade of “F”.

**Class Rules:** You are to turn off your cell phone during class. You are not allowed to use your phone as a calculator. Please respect your instructor and other students in the class. No talking or any distracting behavior. If you fall asleep in class, you will be asked to leave. It is expected that students be familiar with the Student Conduct Code, Disciplinary Procedures and Disciplinary Sanctions in the Student Handbook. Cheating and/or any conduct that disturbs the classroom, the instructor, or the students will not be tolerated. If there is any cheating on the exams, the students cheating will receive a zero for that exam. Any serious violations will be reported; appropriate actions will be taken and consequences will result.

Other course policies, including information regarding students with disabilities and the UWG Honor Code can be found at http://tinyurl.com/UWGSyllabusPolicies. You should read this at the beginning of every semester.

**Course Resources:** The Math Tutoring Center: Located in Boyd room 205, the Math Tutoring Center is open Mon/Tue/Wed 9am-8pm, Thurs 9am-7pm, and Fri 9am-3pm. This is a free tutoring resource that DOES NOT require an appointment. Please use this as there are upper-level students and faculty that can help you. There are also textbooks, solution manuals and computers for you to borrow while you are there.

**Lecture Notes and Power Points:** I will upload lecture notes and power points to CourseDen as we progress through the course. If you must miss a class period, you can use these as a guide to see what we covered that day. They act as a skeleton for the course, so please do not skip class and think you will be okay just looking over these. You can and should use them for studying for tests.
Office Hours: If you are having trouble, please feel free to come to my office during my office hours. I would be more than happy to work with you. Your success is why I pursued this career, so please let me help.

Online Practice: There is a great, FREE online resource: interactmath.com. You just log in and choose the text for this class. This gives you access to hundreds of practice problems that Interactmath will work you through.