MATH 2008  
Foundations of Numbers and Operations

**Course Instructor:**  
Instructor: Mr. Kyle Carter  
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**Course Information:**  
Class: MATH 2008 – 01 (50022 – 3 credit hours)  
Class Time: Tuesday/Thursday 11:00am-1:30pm  
Room: Callaway 205

**Office Hours:**  
Boyd 104 D: Tuesday: 4:30pm – 6:00pm  
Thursday: 4:30pm – 6:00pm  
(or by appointment)

**Course Description:**  
This course is an Area F introductory mathematics course for early childhood education majors. This course will emphasize the understanding and use of the major concepts of numbers and operations. As a general theme, strategies of problem solving will be used and discussed in the context of various topics.

**Learning Outcomes:**  
Students should be able to demonstrate:  
1. Strengthen their understanding of elementary vocabulary and mathematical notation.  
2. Understand operations, algorithms, and other number system and number theory properties.  
3. Make conjectures and use deductive methods to evaluate the validity of conjectures.  
4. Utilize multiple strategies to problem solve in multiple contexts.  
5. Communicate mathematical ideas and concepts.  
6. Develop an appreciation for mathematics from a historical perspective.  
7. Become familiar with the National Council for Teachers of Mathematics via the organization, website, journals, and other resources.  
8. Establish personalized reform-based visions for teaching mathematics successfully and effectively to all children aligned with the Common Core State Standards for Mathematics.

**Course Materials:**  
Calculator: A graphing calculator or scientific calculator will be helpful for this course.

**Grading:**  
Exams: There will be 2 exams for this course. We will review for each exam the class period before the exam is given. Each test is worth 20% of your grade, so all together, the exams are worth 40% of your final grade.

- **Exam 1:** June 23 (Thursday)  
- **Exam 2:** July 14 (Thursday)

**Class Participation and Homework:** There will be daily (short) assignments in class, and there will be two homework assignments. This is designed to challenge you and help you stay active throughout this course. Class participation will count for 10% of your final grade, and the homework assignment will count for 10% of your final grade.

**Microteaching and Reflection Paper:** There will be a semester-end project where you work as a team to present a lesson as if you were teaching your future students. After you present, you will each write a reflection paper discussing your strengths and weaknesses. The presentation and reflection paper will account for 20% of your grade. We will discuss more about this as the semester progresses

**Final:** There is a cumulative final that is worth 20% of your overall grade. We will review for the final as time permits.

- **Location:** Callaway 205  
- **Time:** Thursday, July 28 from 12:30-2:30pm
Final grades determined as follows:

- 89.5 % and higher = A  
- 79.5 % to 89.4 % = B  
- 69.5 % to 79.4 % = C  
- 60 % to 69.4 % = D  
- Below 60 % = F

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: Wednesday, June 29th  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.

For important policy information, i.e., the UWG Honor Code, Email, and Credit Hour policies, as well as information on Academic Support and Online Courses, please review the information found in the Common Language for Course Syllabi documentation at http://www.westga.edu/assets/Departments/vpaa/Common_Language_for_Course_Syllabi.pdf

Course Resources: The Math Tutoring Center: Located in Boyd room 205, the Math Tutoring Center is open to help you out. The hours are posted on the door. 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.

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: interactivemath.com. You just log in and choose the text for this class. This gives you access to hundreds of practice problems that Interactivemath will work you through.