

Course: MATH 2008 section 01, Foundations of Number Systems - 3 credit hours

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: Upon successful completion of this course, students will demonstrate:

1. A better understanding of standard vocabulary and symbols of elementary mathematics;
2. An understanding of the development of number systems from the whole numbers to reals;
3. An understanding of operations, algorithms, place value, elementary number theory;
4. An ability to apply concepts of fractions, decimals, percents, ratio, and proportion in problem-solving;
5. An appreciation for mathematics from an historical prospective;
6. A better understanding of the uses of of manipulatives, technology, and other materials for the P-8 level;
7. A better understanding of the vision of math education and Common Core Standards;
8. A better understanding of the scope and sequence of elementary school mathematics programs;

Prerequisites: MATH 1001 or 1111 or 1113 with a grade of C.

Instructor: Mr. Jim Bellon (best way to contact me is through CourseDen) or jbellon@westga.edu

Office & Hours: Boyd 104C Tu/Th 8:30–8:55am, 11:30am-12pm, 1-1:55pm, 4:30-5pm

Class Meets:

- #1) Tuesdays/Thursdays 2 – 4:30pm in Boyd 304
- #2) In UWG’s CourseDen for class information and communication
- #3) And Pearson publisher’s MyMathLab website for online assignments.

Course Materials: A graphing calculator is recommended (preferably one of the TI-83 or 84 models). Students are required to purchase access to MyMathLab (includes **e-book**). Options are:

#1: pay for immediate access when you register directly at www.mymathlab.com

#2: Get a MyMathLab accesscode from www.amazon.com (cheapest option)

#3: Get aMymathlab accesscode bundled with the textbook.

All 3 options, Use the course code **bellon77276** to join our course in MyMathlab

***** The actual textbook is optional. MyMathLab includes e-book access to the text. *****

A Problem Solving Approach to Mathematics, 12th edition, by Billstein,Libeskind,Lott from Pearson Pub.

Grading: MyMathlab Homework (counts 25 %), MyMathLab Quizzes (avg counts 20%, lowest dropped) Midterm and Final exams (written answer, counts 40%), Groupwork in class (counts 15%, lowest dropped). Final grades are as follows:

89.5 % and higher	=	A
79.5 % to 89.4 %	=	B
70 % to 79.4 %	=	C
60 % to 69.9 %	=	D
Below 60 %	=	F

Make-up policy: There are no make-ups for online assignments. You are expected to keep up with learning the material each week, completing assignments by the due dates, and getting help when needed. Make-ups for exams and groupwork 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, period! Points can be earned only as stated above.

Attendance Policy: Students are expected to attend EVERY class and complete all work when assigned. You will be allowed TWO missed classes with a VALID and documented excuse. If you miss 3 or more classes you will be dropped and receive a failing grade (unless you withdraw before the deadline). Students are responsible for the topics covered and assignments due whether present or not. "I was not here" is NOT a valid excuse. You may not leave early. Arriving more than 5 minutes after start of class is considered late. Being late 3 times during the course counts as one absence.

Last Date to Withdraw: Friday *June 23rd* Any student who withdraws after this date will receive a grade of "F".

Class Rules: You are to turn off your cellular phone during the class. You are not allowed to use your phone as a calculator on exams. 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!! Any serious violations will be reported; appropriate actions will be taken; and consequences will result. Please see the general policies for UWG at <http://tinyurl.com/UWGSyllabusPolicies>.

Meeting with Instructor can be beneficial and is encouraged. Meeting should occur during the instructor's office hours, whenever possible. If these hours conflict with a student's schedule, then appointments should be made. The meeting time is not to be used for duplication of lectures that were missed; it is the student's responsibility to obtain and review lecture notes before consulting with the instructor. As your instructor, I am very concerned about the student's achievement and well-being and encourages anyone having difficulties with the course to contact me for extra help.

Note: If you have a documented disability, which will make it difficult for you to carry out the course work as I have outlined and / or if you need special accommodation or assistance due to disability, please contact me as soon as possible.

Math Tutoring: On Campus:
**Offered by the math Department in Boyd 205, you can just walk in and get help.
Hours are Mon/Wed/Fri 10am-2pm, Tue/Thu 10am-4pm
There are 2 tutors on duty who will rotate between students.
There are also textbooks and computers to use while you are in the tutoring center.

This is a tentative schedule of assignments and topics to be covered in class sessions. Changes will be made as needed. Once we finish a section, we will immediately move along to the next section. It is recommended that you read over text sections BEFORE we cover them in class. After we cover topics, you should complete assignments and do any extra practice or get help as needed. Don't wait until its too late (like after doing bad on a quiz).

Class	Thu 6/1	Introduction, chapter 1	Reasoning, problem solving strategies, patterns
Class	Tue 6/6	chapter 2	Logic, statements, sets, cardinality, Venn diagrams, set operations
Class	Thu 6/8	Group Worksheet #1 in class	start chapter 3 whole numbers: addition, subtraction
	Thu 6/8	HW #1 due in MyMathLab	
Class	Tue 6/13	chapter 3	whole numbers: multiplication, division
	Tue 6/13	HW #2 due in MyMathLab	
	Wed 6/14	Quiz #1 due in MyMathLab	
Class	Thu 6/15	Group Worksheet #2 in class	start chapter 4 divisibility, prime/composite numbers
	Sun 6/18	HW #3 due in MyMathLab	
Class	Tue 6/20	chapter 4	factors, divisors, multiples, GCD, LCM
	Tue 6/20	HW #4 due in MyMathLab	
	Wed 6/21	Quiz #2 due in MyMathLab	
Class	Thu 6/22	Group Worksheet #3 in class,	review for midterm.
	Sun 6/25	HW #5 due in MyMathLab	
Class	Tue 6/27	<u>Take Midterm Exam</u> in class (written exam, chapters 1,2,3,4)	
Class	Thu 6/29	chapter 5	operations with integers
Tuesday July 4th, INDEPENDENCE-DAY - No Class			
Class	Thu 7/6	chapter 6	rational numbers
	Thu 7/6	HW #6 due in MyMathLab	
	Sun 7/9	Quiz #3 due in MyMathLab	
Class	Tue 7/11	chapter 6	ratio & proportion
Class	Thu 7/13	Group Worksheet #4 in class	start chapter 7 Decimals
	Thu 7/13	HW #7 due in MyMathLab	
	Sun 7/16	Quiz #4 due in MyMathLab	
Class	Tue 7/18	chapter 7	Percents
	Wed 7/19	HW #8 due in MyMathLab	
Class	Thu 7/20	Group Worksheet #5 in class, review for final	

Friday July 21st FINAL EXAM (cumulative) 3-5pm in our classroom.