MATH 2008 – Found of Numbers & Operations

Hours Credit: 3 hours
Prerequisites: Math 1111 or Math 1113 or Math 1001 or Math 1101
(10402) MATH-2008-02 and (10403) MATH-2008-03

COURSE INSTRUCTOR

Instructor: Vanthu Tran
Office: Ingram Library 311
Email: vtran@westga.edu
Phone: (678) 839 - 3926

OFFICE HOURS

Tuesday and Thursday: 12:30-1:30 p.m. and 3:30-4:30 p.m.
Or by appointment

TEXTBOOK

A problem solving Approach to Mathematics for Elementary Teachers (12th edition), by Billstein, Libeskind, Lott from Pearson Publishers.

Courses 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

1. The student will be able to solve problems using various problem solving strategies.
2. The student will be able to identify patterns and sequences including arithmetic, geometric, and Fibonacci sequences.
3. The student will be able to work with set operations and Venn diagram.
4. The student will be able to work with numeric systems of various bases.
5. The student will be able to understand mathematical properties including commutative, associative, and distributive properties.
6. The student will be able to understand various strategies in computing number operations for integers and fractions.

COURSE ASSESSMENT

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

Assignments	24%	(drop 3 lowest scores)
Tests – 4 as announced	51%	
Comprehensive Final Exam	25%	

NOTE: Calculator is not allowed in this course.

Grading Scale:

90% - 100%:	A
80% - 89%:	B
70% - 79%:	C
60% - 69%:	D
<60%:	F

OTHER COURSE INFORMATION

Assignments: Homework is online, using MyOpenMath: https://www.myopenmath.com/. Check the announcement on CourseDen for registration information. Assignments for the week will be due on Sunday before midnight. You may turn in late assignments, with points deducted. All late assignments must be turned in on Sunday night before the given test.

Tests/Exam: You must take tests on the specified date. Usually, makeup tests will not be given unless you miss a test for reasons that are serious, unavoidable, and beyond your control. **You must contact me before the next class meeting if you miss a test or a zero is recorded.** When possible, you should notify me before missing the work. The final exam is a required class meeting that will not be rescheduled for discretionary reasons, including conflicts with work schedules, conflicts with classes and exams at other colleges, and travel plans.

COURSE POLICIES AND INFORMATION

University Policies and Academic Support

Please carefully review the following Common Language for all university course syllabi at the link:

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

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.

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/assetsDept/vpaa/Common_Language_for_Course_Syllabi.pdf.

Academic Honesty

NOTE: ALL FORMS OF ACADEMIC DISHONESTY SHOULD BE REPORTED AND THE STUDENT NOTIFIED.

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.

Attendance and Communication: To provide all students with the most effective learning environment, you will be expected to be in class before instruction begins and to stay until the class is dismissed. If your schedule does not permit this to happen, you may need to change your schedule. If you miss a class, it is your responsibility to make up missed work. You are responsible for any material covered in your absence. Attendance will be taken and records will be sent to the Math Department. You are responsible for all announcements made in class and posted on CourseDen.

IMPORTANT DATES:

First Day of Class:	Monday, January 6
Drop Ends:	Friday, January 10
Last Day to Withdrawal with W:	Friday, February 28
Last Day of Class:	Monday, April 27
Final Exam Period:	April 29 – May 5 (see The Scoop for specific times)
No classes:	Monday, January 20 (MLK Day)
	Monday March 16- Friday March 20 (Spring Break)

TENTATIVE FOUND OF NUMBERS & OPERATIONS SCHEDULE

(This schedule may be modified at any time with announcements in class, or in the CourseDen.)

Week	**Schedule**	**Content**
1 1/6-11/10	Syllabus Ch.1 (1.1-1.2)	An Introduction to Problem Solving
2 1/13-1/17	Ch.1 continue Ch.2 (2.1-2.3)	Introduction to Logic and Sets
3 1/20-1/24	Ch.2 continue	
4 1/27-1/31	Ch.2 continue Review ch.1 and 2	
5 2/3-2/7	**Test 1** Ch.3 (3.1-3.5)	Numeration Systems and Whole Number Operations
6 2/10-2/14	Ch.3 continue	
7 2/17-2/21	Ch.3 continue	
8 2/24-2/28	Ch.3 continue	
9 3/2-3/6	Review ch.3 **Test 2**	
10 3/9-3/13	Ch.4 (4.1-4.3)	Number Theory
11 3/16-3/20	**Spring Break**	
12 3/23-3/27	Ch.5 (5.1-5.2)	Integers
13 3/30-4/3	Review ch.4 and 5 **Test 3**	
14 4/6-4/10	Ch.6 (6.1-6.4)	Rational Numbers and Proportional Reasoning
15 4/13-4/17	Ch.6 continue	
16 4/20-4/24	Review ch.6 **Test 4**	
17 4/27-5/1	4/28 Optional final review ---------- **TR 9:30 – 10:45 class:** **Final Thursday 4/30/20** **8:00 - 10:00 am**	
18 5/4-5/8		**TR 11:00 – 12:15 class:** **Final Tuesday 5/5/20** **11:00 - 1:00 pm**