

Name of Student: _____

Department of Mathematics – VALDOSTA STATE UNIVERSITY

COURSE

MATH 2008 - Foundations of Numbers and Operations

Credit Hours: 3

Pre-requisites: MATH 1101 or 1111 with a grade of C or better

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 number and operations. As a general theme, strategies of problem solving will be used and discussed in the context of various topics. Designed for ECED and SPEC majors.

COURSE GOALS

This course focuses on preparing early childhood education majors to:

1. Understand and use the major concepts of number and operations in mathematics for grades P-5.
2. Solve problems using multiple strategies, manipulative, and technological tools; interpret solutions; and determine the reasonableness of answers and efficiency of methods.
3. Communicate using precise mathematical terminology.
4. Construct and justify arguments as well as interpret solutions; determine reasonableness of answers and efficiency of methods.

REQUIRED TEXTS, RESOURCES AND MATERIALS:

Textbook: Moch, P., Wares, A., Harrell, G.: "Creating Positive Change in Elementary Teachers Mathematics." Kendall Hunt Publishing Company

Other: Colored pencils or markers, calculator (graphing preferred), ruler (12 inches/30 cm), compasses, eraser, stapler, scissors.

NOTE: *Have these items with you every time you have class!!*

GENERAL STUDENT LEARNING OUTCOMES

Students will learn to:

1. Understand numbers, ways of representing numbers, relationships among numbers, and number systems.
2. Understand meanings of operations and how they relate to one another.
3. Compute fluently and make reasonable estimates.
4. Apply multiple problem solving strategies and understand how approaches to solutions relate to one another.
5. Understand how models work and why they play an important role in the teaching of Elementary Mathematics at all levels.
6. Develop a basic understanding of statistics and probability. Know how to reason and model with these concepts.

ASSIGNMENTS

In-Class Work and Homework Assignments

The in-class experiences and out-of-class assignments are integral parts of the course. You can expect:

1. ***In-class activities.*** Complete in-class activities with a good work ethic and a positive attitude.
2. ***Text exercises or instructor made homework.*** Text exercises or instructor made problems or exercises will generally be given for homework at regular class meeting. Be certain to review **ALL** of the text exercises that are given (doing any exercise is up to you).
3. ***Formative quizzes*** over some of the material will be provided.
4. ***Reading Assignments:*** Reading assignments will be given. Doing the reading assignments prior to each class meeting will enrich your classroom experience and help you to formulate questions for clarification more readily.

Instructor class notes can be printed by students prior to class for a given section if desired. Do **NOT** rely solely on the notes nor skip the reading of the Textbook!

Please finish all your work on time and in an orderly style.

EXAMINATIONS AND MAKEUP POLICY

- Make-Up Work: Make up work or alternative assignments will be determined by the professor and at the sole discretion of the professor. These assignments may or may not exactly duplicate the original and will not entitle other students to the same alternatives since they may not have experienced the same situations.
- NO MAKEUP EXAMS WILL BE GIVEN after the test has been administered to the class. If you know in advance you must miss an exam day, let the instructor know in advance so potentially arrangements can be made to take the exam early. It is NOT your right to take an exam early. This is done at the discretion of the instructor.
- Your lowest Test score will be replaced by your final exam score (if it helps).
- So, if you miss ONE exam, the missed exam will be your low score (grade of zero) and therefore your final exam score will be used for that exam. Be aware: your final exam score is still your final exam score. It will not go away.
- **Each subsequently missed exam will receive a score of zero.**
- All exams should be taken with a strong effort each time.
- Each of the Tests is a closed-book, closed notes, individual Test. The content of the Tests is based on the material presented in the course through readings (text and additional readings), text exercises, assignments, in-class notes, and in-class activities.

ASSESSMENT and GRADING POLICY

There will be examinations, homework assignments, Tests and Quizzes.

- **The final exam is a Mandatory Comprehensive Final Examination and will make up 20% of your overall grade for the course.**
- **The Tests are 40% of your grade.**
- **Hwk. : 30% of your grade**
- **Quizzes: 10% of your grade.**

Grading scale

A = 90 – 100%

B = 80 – 89%

C = 70 – 79%

D = 60 – 69%

F = less than 60%

CLASSROOM POLICIES

Attendance

- It is very important that you attend every class session. Roll will be taken each time by the instructor.
- If you miss more than 20% of the class meetings (> 6 days), you will receive an F in the course as per Valdosta State University Policy found in the VSU Undergraduate Catalog.
- Please note that there are no distinctions made between “excused” and “unexcused” absences. All absences are counted equally no matter what the reason.
- If you are absent, be certain to get class notes, handouts, and assignments from another student in the class. Getting the phone number and e-mail address of two or three classmates during the first week of class will be very helpful. *You may also approach the Instructor to get copies.* It is **your responsibility** to get class materials for a session that you missed. Instructor notes are available in Blaze View.
- Students will receive points for class attendance and participation. Students will lose points for lack of participation, and absences.

Work with study groups to help you communicate directly with your peers on matters of mathematical problem solving and for reflection on the content.

Tardiness

- If you are late it is your responsibility to notify the instructor at the end of that specific class meeting to be sure the attendance is amended to tardy. Failure to notify the instructor will result in your being counted absent.
- The amount of time you are tardy will count against the number of days you can miss for the course. You may not make “corrections” after the fact to your absences or tardiness at a subsequent class meeting.
- Excessive tardiness or absences may result in the notification of your major chair and/or the filing of a Departmental Concern Form.

Accommodation

Students with disabilities who are experiencing barriers in this course may contact the Access Office for assistance in determining and implementing reasonable accommodations. The Access Office is located in Farber Hall. The phone numbers are 229-245-2498 (V), 229-375-5871 (VP) and 229-219-1348 (TTY). For more information, please visit [VSU's Access Office](#) or email: access@valdosta.edu.

Title IX Statement:

Valdosta State University (VSU) is committed to creating a diverse and inclusive work and learning environment free from discrimination and harassment. VSU is dedicated to creating an environment where all campus community members feel valued, respected, and included. Valdosta State University prohibits discrimination on the basis of race, color, ethnicity, national origin, sex (including pregnancy status, sexual harassment and sexual violence), sexual orientation, gender identity, religion, age, national origin, disability, genetic information, or veteran status, in the University's programs and activities as required by applicable laws and regulations such as Title IX. The individual designated with responsibility for coordination of compliance efforts and receipt of inquiries concerning nondiscrimination policies is the University's Title IX Coordinator: Director of the Office of Social Equity, titleix@valosta.edu, 1208 N. Patterson St., Valdosta State University, Valdosta, Georgia 31608, 229-333-5463.

GENERAL STATEMENTS and INFORMATION:

New Limited Withdrawal Policy

- Please remember that starting fall 2010, undergraduate students are limited to 5 course withdrawals for the lifetime of their undergraduate record.
- DO NOT OVER-REGISTER! Please make sure you are enrolled in courses you intend to complete.
- Please go to <http://www.valdosta.edu/academic/WithdrawalPolicy.shtml> and read the entire policy and the FAQs.

Classroom Demeanor or Conduct and Academic Integrity

A professional demonstrates the ability to focus on the job at hand. We expect professional basketball players, surgeons, attorneys, etc. to focus on their work when working. Michael Jordan does not read the paper during his game, nor does he go to the game simply to chat. During the semester you need to exhibit professional behavior by focusing on the job at hand – **learning mathematics**. If you will come to class with the mindset of putting learning first, then the following aspects of professionalism will naturally fall into place:

- Come to class every time it is scheduled, be on time and do not leave early
- Turn in assignments and other materials on time
- Do not pack up your books early
- Stay on task – learning mathematics
- Turn off/silence cell phones and all other electronic devices

- No electronic devices are permitted except graphing calculators
- Students who use electronic devices during class will lose participation points
- Be prepared
- DO NOT CHEAT. Procedures for academic dishonesty will be followed if work presented as your own is not actually your own work
- If you need help, please get the help BEFORE the examinations
- Through your actions and words, display that the work you are doing is important.
- Be courteous to and respectful of others. All students have the right to hear in class lectures, so do NOT converse privately during class lectures.
- Clean up after yourself.
- Demonstrate a positive attitude.
- By taking this course, you agree that all required course work may be subject to submission for textual similarity review to Turnitin, a tool within BlazeVIEW. For more information on the use of Turnitin at VSU see [Turnitin for Students](#).

Deviation from the stated, implied, or orally given professional standards may result in the notification of your major chair and/or the filing of a Departmental Concern Form.

Strategies used to support learning

1. [The Student Success Center](#):

The Student Success Center (SSC) provides free peer tutoring in core courses, the top four of which are math, writing, Spanish, and biology/chemistry. It also offers time management and study skills workshops as well as provides free professional academic advising and on-campus job information in one location: Langdale Residence Hall. Help is available to all VSU students. Call to make an appointment.

2. **Odum Library** provides a variety of services to assist classroom instruction, including library instruction, course reserves, and interlibrary loan. Please see [Library Faculty Services](#) for further information.

Work with study groups to help you communicate directly with your peers on matters of mathematical problem solving and for reflection on the content.

If you have problems that impact your work in this class, talk to the professor!!

Student Opinion of Instruction

At the end of the term, all students will be expected to complete an online Student Opinion of Instruction survey (SOI) that will be available on BANNER. Students will receive an email

notification through their VSU email address when the SOI is available (generally at least one week before the end of the term). SOI responses are anonymous to instructors/administrators. Instructors will be able to view only a summary of all responses after they have submitted final grades. While instructors will not be able to view individual responses or to access any of the data until after final grade submission, they will be able to see which students have or have not completed their SOIs. These compliance and non-compliance reports will not be available once instructors are able to access the results. Complete information about the SOIs, including how to access the survey and a timetable for this term is available at [Online SOI Project](#).

Grade form to use for keeping track of grades and related numbers

Name: Course: Math 2008 Semester:	
Tests 1.----- 2.----- 3.----- 4.-----	Points 1----- 2----- 3----- 4-----
Quizzes 1. 2. 3. 4.	Points 1. 2 3 4
Articles to study	Points
Activities and projects	Points
Final Exam	Point
Final Grade	Point

Instructor reserves the right to make changes or modifications to the syllabus upon notification of the class members.