University of West Georgia

MATH 2008: Foundations of Numbers and Operations

COURSE INSTRUCTOR
Instructor:  ABDELSAGER AGOUN
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OFFICE HOURS  By Appointment only

Catalog 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. Textbook Information: Billstein, R., Libeskind, S., & Lott, J. (2015). A problem solving approach to mathematics for elementary school teachers, (12th ed.). Boston, MA: Pearson.

Student Learning Outcomes:

• Strengthen their understanding of elementary vocabulary and mathematical notation. • Understand operations, algorithms, and other number system and number theory properties. • Make conjectures and use deductive methods to evaluate the validity of conjectures. • Utilize multiple strategies to problem solve in multiple contexts. • Communicate mathematical ideas and concepts. • Establish personalized reform-based visions for teaching mathematics successfully and effectively to all children aligned with the Common Core State Standards for Mathematics.

Attendance Policy:

It is my expectation that you will attend every class session and be punctual. Class participation entails being an active participant to your respective learning community. In the event of an absence, you are expected to get the materials and information relevant to the missed class from your peers. Please note that it is your responsibility to sign the attendance sheet during each class period.

Students with Disabilities:

Students who wish to request accommodation for a disability may do so by registering with the Office of Disability Services. Students may only be accommodated upon issuance by the Office of Disability Services of a signed Accommodation Plan and are responsible for providing a copy of that plan to instructors of all classes in which an accommodation is sought.
Instructional Methods and Activities

During class sessions, a variety of pedagogical strategies will be employed to engage students in the mathematics teaching and learning dynamic. Students are expected to be professional and to be active participants in class activities, mathematics tasks, learning designs, etc.

Mathematics Concepts Covered

Divisibility Order of Operations  
Explorations with Patterns  
Prime and Composite Numbers  
Greatest Common Divisor  
Problem Solving Strategies  
Integers  
Rational Numbers  
Introduction to Measures of Central Tendency  
Set Operations and their Properties  
Least Common Multiple  
Set Theory  
Number Properties  
Whole Number Computations  
Numeration Systems  
Whole Numbers

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

ASSESSMENT GRADING:
3 Progress Tests 60%
Homework/Projects 15%
Comprehensive Final Exam 25%

**Summer Calendar**

SESSION II
- May 31 Classes begin May 31
- June 1 Drop/add
- July 4 Independence Day Holiday (no classes, offices closed)
- July 20 Session II classes end
- July 23-24 Final exams

**Testing /Make-up Policy**

You must complete each test within the time allowed during the class period.
Every test score will be used in computation of your progress test average.

If you have an excuse absence for one progress test, the next test score will replace the missing test. If you do not request an excuse absence for a missed test, or your request is denied you will received a zero on that test.
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
Definitions of academic dishonesty are defined in the student handbook:
www.westga.edu/handbook/

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. To create a good environment for learning avoid sidebar conversations with other students while work is being done at the board, rude comments or remarks, raised voices or confrontational comments.
If your actions in class are deemed by your instructor to be disruptive, you will be asked to leave the class immediately. If you are ever asked to leave the class you might be permitted to return to future class meetings after consultation with your instructor outside of the class.

Change in syllabus, schedule, and/or assignments for this class may be made at the discretion of your instructor