

University of West Georgia

MATH 2008: Foundations of Numbers and Operations

Spring 2018

Course Syllabus

Instructor: Dr. Christopher Jett

Office: 322 Boyd Building

Class Location: 305 Boyd Building

Office Hours: TR 10:30–11:00 a.m.;

1:00–3:00 p.m.; & Others by appointment

E-mail: cjett@westga.edu

Phone: (678) 839-4130

Class Meeting: TR 11:00–12:15 p.m.

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. There are only 4 unexcused and excused absences allowed this semester. If you exceed 4 absences, you will fail the course. 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.

Evaluation Techniques:

Test 1: 150 Points	Quizzes: 5 @ 20 Points Each	Microteaching: 75 Points
Test 2: 150 Points	Homework : 3 @ 35 Points Each	Final Exam: 250 Points
Test 3: 150 Points	Book Presentation: 20 Points	Total – 1000 Points

Grading Scale:

A: 1000–900 Points	C: 799–700 Points	F: Below 600 Points
B: 899–800 Points	D: 699–600 Points	

Exam Dates and Other Important Dates:

Exams are scheduled for Tuesday, February 6th, Thursday, March 8th, and Thursday, April 12th. The final exam is scheduled for Tuesday, May 8th from 11:00 a.m.–1:00 p.m.

There will be no class on Thursday, February 8th and Tuesday, April 17th as the professor will be away at professional conferences. The book presentation is scheduled for Thursday, March 15th. Microteaching presentations are scheduled for April 19th, 24th, and 26th.

Class Policies and Procedures:

1. Homework must be completed by the scheduled test dates by 11:00 a.m. via MyMathLab, and the homework code for this course is jett46009.
2. There will be no make up for quizzes under any circumstances.
3. There will be no make up for the book presentation or the microteaching presentation; failure to present on your scheduled date will result in a grade of zero.
4. Late work is not accepted.
5. If you must miss a test and you have an excused documentation, then the final examination will be used for the missed test in the calculation of your final course grade.
6. Calculators can be used during exams; however, cell phones may not be used (even as calculators).
7. Please be sure that your cellular phone is placed on vibrate or silent during class time.
8. Cheating is not tolerated. If you are caught cheating, then you will receive a zero for the test or assignment and will be reported for academic dishonesty.
9. Conferences can be beneficial and should occur during office hours.
10. Office hours will not be kept during final exam week. Please schedule an appointment if a meeting is necessary during that week.
11. Grades cannot be sent via e-mail. You are expected to keep accurate records of your grades and ascertain where you stand in the course.

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