

# University of West Georgia

MATH 2008: Foundations of Numbers and Operations

Spring 2017

Course Syllabus

**Instructor:** Dr. Christopher Jett

**Office:** 322 Boyd Building

**Class Location:** 307 Boyd Building

**Office Hours:** TR 12:30–3:30 p.m.

**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:

The students should be able to do the following:

- 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.
- Develop an appreciation for mathematics from a historical perspective.
- Become familiar with the National Council for Teachers of Mathematics via the organization, website, journals, and other resources.
- 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 3 unexcused and excused absences allowed this semester. If you exceed 3 absences, you will fail the course. Please note that 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

Test 2: 150 Points

Test 3: 150 Points

Final Exam: 250 Points

**Total – 1000 Points**

Quizzes: 5 @ 20 Points Each

Homework : 3 @ 35 Points Each

Microteaching: 75 Points

Book Presentation: 20 Points

**Exam Dates and Other Important Dates:**

Exams are scheduled for Tuesday, February 7<sup>th</sup>, Tuesday, March 7<sup>th</sup>, and Thursday, April 13<sup>th</sup>. The final exam is scheduled for Tuesday, May 9<sup>th</sup> from 11:00 a.m.–1:30 p.m.

There will be no class on Thursday, February 23<sup>rd</sup> and Thursday, March 16<sup>th</sup> as the professor will be away at professional meetings. The book presentation is scheduled for Tuesday, March 14<sup>th</sup>. Microteaching presentations are scheduled for April 18<sup>th</sup>, 20<sup>th</sup>, and 25<sup>th</sup>.

**Grading Scale:**

A: 1000–900 Points

B: 899–800 Points

C: 799–700 Points

D: 699–600 Points

F: Below 600 Points

**Class Policies and Procedures:**

1. Homework must be completed by the scheduled test dates, and the homework code for this course is jett81269.
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 the final exam; 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 are encouraged. All conferences should occur during the instructor's office hours.
10. Office hours will not be kept during final exam week. If a meeting is necessary during final exam week, then please schedule an appointment.
11. Please note that the schedule is tentative. Changes might be made based on students' needs, inclement weather changes, etc.

12. 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	Percents
Greatest Common Divisor	Prime and Composite Numbers
Integers	Problem Solving Strategies
Introduction to Measures of Central Tendency	Rational Numbers
Least Common Multiple	Set Operations and their Properties
Number Properties	Set Theory
Numeration Systems	Whole Number Computations
Operations on Decimals	Whole Numbers