

University of West Georgia

MATH 3803: Algebra for P-8 Teachers I

Summer 2020

Course Syllabus

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Class Location: 307 Boyd Building

Class Meeting: Online

Catalog Description:

This course has a special emphasis for teachers of grades P-8. It broadens understanding of the fundamental concepts of **algebra** with particular **attention to specific methods** and materials of instruction.

Required Books:

Bilistein, R., Libeskind, S., & LoU, J. (2020). *A problem solving approach to mathematics for elementary school teachers*, (13th). Boston, MA: Pearson Addison-Wesley.

Student Learning Outcomes:

The teacher candidates should be able to do the following:

Strengthen their understanding of algebraic vocabulary, notation and symbols.

Deepen their understanding of fundamental concepts of algebra including linear equations, inequalities, ratios, proportions, functions, polynomials, exponents, and radicals.

Recognize and correct “common errors” in algebra.

Use algebra to problem solve in multiple contexts.

Communicate algebraic ideas and concepts effectively and successfully.

Become familiar with the National Council for Teachers of Mathematics via the organization, website, journals, and other resources.

Establish personalized reform-based visions for promoting algebraic thinking aligned with the Common Core State Standards for Mathematics.

Evaluations and Grading Procedures:

Homework and quizzes (30%): There will be 2-3 homework assignments for each chapter. Homework assignments should be done after completing all assigned readings and finishing the worked examples. **NO LATE HOMEWORK WILL BE ACCEPTED.**

Exams (45%): There will be 3 one-hour exams, and each exam will contribute 15% towards the final grade. Unexcused absences from an exam will result in a grade of zero (0) for that exam.

Final Exam (25% of the grade): A **comprehensive** final exam will be given during Finals Week.

Letter grades will be assigned by the following scale:

90-100%	A
80-89%	B
70-79%	C
60-69%	D
Below 60%	E

Make-up and extra credit policy: There will be **NO** make-ups for HW assignments, quizzes, or exams will be allowed. **Please note that NO extra credit will be given!** Points can be earned only as stated above.

University policies: Please refer to university's policy at [http:// tinyurl.com/UWGSyllabusPolicies](http://tinyurl.com/UWGSyllabusPolicies)

This is a tentative schedule of assignments and topics to be covered. Changes will be made as needed.

Week 1: Chapter 6 (Rational Numbers and Proportional Reasoning)

Week 2: Exam 1 review; Exam 1

Week 3: Chapter 7 (Decimals, Percents, and Real Numbers)

Week 4: Exam 2 review; Exam 2

Week 5: Chapter 8 (Algebraic Thinking)

Week 6: Exam 3 review; Exam 3

Week 7: Final exam review

Week 8: Final exam