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:

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

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