



Course Syllabus - Math 164 - Winter 2010
Foundations of Arithmetic
11:00 - 11:50AM / MTWRF / HERTZ 120

Professor: Dr. Jane Whitmire
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Phone - Office: 509-963-2268 Bouillon 123
Office Hours: Monday and Tuesday 2:00-2:50 pm, Friday 8:00-9:50 am
Textbook: A Problem Solving Approach to Mathematics for Elementary
School Teachers, 10th Edition
Authors: Billstein, Libeskink, Lott

Course Description

The purpose of this course is to prepare you to teach early or middle childhood students. The goal is not only to prepare you to explain new mathematical content; Number Theory, Functions, Algebra, Counting, and Probability, but to help you further develop your abilities to speak and write clearly about mathematics. The problems selected for classwork and assignments are intended to be challenging as a way to help you further develop your ability to learn mathematics. As you begin teaching, you will discover (as we all do) deficiencies in your own understanding that will require learning on your own. A goal of this course is to help you learn how to learn. As an added benefit, your experiences in this course may help you begin to reflect on how people learn mathematics.

Electronic Equipment

Unless otherwise stated, students will not be allowed to operate any type of electronic equipment in class such as cellular phones, calculators, or beepers. Electronics, including calculators and cell phones, will not be allowed during examinations.

Supplies

Students are responsible their own writing materials such as pencil, colored pens, highlighter, stapler, glue, ruler and paper (plain, grid, and lined). Maintain your supplies, notes, homework, and examinations organized in a portfolio. The portfolio will be collected at random for inspection.

Homework:

Homework is always due two class periods after it is assigned. Homework exercises should be written with attention to detail and COMPLETE SENTENCES. Pictorial representations for manipulatives should be done neatly and accurately. Unless otherwise specified, homework should be completed in PENCIL. No late homework will be accepted - no exceptions.

Grading

Everyone is graded the same way. NO EXCEPTIONS. Letter grades A/A-/B+/B/B-/C+/C/C-/D+/D/D-/F are based on a strict 93-100/90-92.9/87-89.9/83-86.9/80-82.9/77-79.9/73-76.9/70-72.9/67-69.9/63-66.9/60-62.9/BELOW 60 cutoff. Grades are not rounded either up or down. The course grade can be calculated at any time using the following proportions:

<i>Homework</i>	→ 20%
<i>Exams</i>	→ 30%
<i>Attendance</i>	→ 10%
<i>Presentation</i>	→ 20%
<i>Final</i>	→ 20%

Exams:

Exam dates are Monday, February 1, 2010 and Monday, March 1, 2010. Exams are comprehensive and cover all material discussed in class since the previous exam. Completing the exam in the time allotted is part of the exam. Taking an exam is an important part of the course. Nevertheless, scheduling complications sometimes occur. An alternate procedure for taking an exam due to a scheduling complication must be arranged in advance. No make-up exams will be administered.

Activities:

In-class activities will include solving problems using manipulatives and classroom discussion to reinforce mathematical skills. You are expected to participate in group work, games, activities, and discussions.

Presentation:

Each student will give at least one presentation over the term. A copy of the lesson plan should be provided to each student for insertion into the portfolio. The lesson plan should include section, topic name, standard(s), objective, outline of presentation, example problems, and description of activity. An accompanied homework must also be provided. The homework assignment should state the topic and presenter name at the top of the page. Grading on each presentation will be based on peer review, completeness, and a timeline outlined in the presentation rubric.

Final Exam:

The final MUST be taken to pass the course. The final is comprehensive, covers all material discussed in class, and is to be taken at the time scheduled by the University. The final exam for Winter 2010 is Thursday March 18th from 8:00 to 10:00 am.

Note:

You may and should use the internet as a resource - However, any use of examples or text taken from any internet website must be cited as with any other outside materials. This course involves a lot of group work - However, all written work must be completed individually. Though group members might have a common point of view on a problem, each lesson plan or homework must reflect that individual's unique understanding.

Academic Integrity

Cheating, plagiarism, and copying material that is copyrighted will not be tolerated. Disciplinary action will be taken for any of these wrong doings.

Special Needs Statement

As soon as possible, students with disabilities who wish to set up academic adjustments in this class should provide a copy of their "Confirmation of Eligibility for Academic Adjustments". Eligible students without this form should contact the Disability Support Services Office by visiting Bouillon 205, emailing dsrecept@cwu.edu, or calling the phone number 509-963-2171.