

Syllabus for Math 164

Foundations of Arithmetic (5 credits)

Fall 2007

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Office Hours: 8:00 - 8:00 am By appt. only

9:00 - 9:50 am Daily

12:00 - 12:50 pm, M,T,W,F

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Text: A Problem Solving Approach to Mathematics for Elementary School Teachers, 9th Edition, by Billstein, Libeskind, and Lott

Optional Text: Principles and Standards for School Mathematics by the National Council of Teachers of Mathematics (NCTM). Note: The full version of this text is available on-line at www.nctm.org

Goals and Outcomes:

Students will be able to solve problems in a variety of ways in content areas and using processes recommended by the NCTM Principles and Standards. Those principles and standards are briefly listed below.

<u>Principles</u>	<u>Content Standards</u>	<u>Process Standards</u>
Equity	Number and Operation	Problem Solving
Curriculum	Algebra	Reasoning and Proof
Teaching	Geometry	Communication
Learning	Measurement	Connections
Assessment	Data Analysis and Probability	Representation
Technology		

Work

1. Daily homework assignments will be given but only collected as noted in the schedule. There will be several in-class activities throughout the quarter.
2. You will be required to compile 3-4 lessons around the NCTM Standards, covered in class.
3. There will be a 3 tests and a comprehensive final exam. **There will be no early exams given.** The dates are listed in your schedule. If you have a conflict, see the instructor at least 3 days prior to the date so that an alternative time can be arranged, if necessary.

4. **Extra Credit** will be given throughout the quarter. No more than 25 total points of extra credit can be earned for the quarter. This opportunity will **not** be granted to any student with 5 absences or more.

Grading: Your final grade will be determined as follows:

93-100% = A 90-92% = A- 87-89% = B+ 83-86% = B 80-82% = B- 77-79% = C+
73-76% = C 70-72% = C- 67-69% = D+ 63-66% = D 60-62% = D- 0-59% = F

Attendance

Your daily attendance is extremely important for success in this class. The in-class activities are cooperative in nature and discussions of the activity cannot be duplicated. Your group members depend on your presence, and so do I.

Vocabulary

Math is like a foreign language. You **must** become comfortable with the vocabulary. Consequently, you can receive **extra credit** by completing the attached vocabulary list. Words should be defined using your own words **NOT** taken directly from the textbook. Your vocabulary list must be typed and on a separate piece of paper. This will be due on Wednesday, November 28th. It is worth 25 points. **No late lists will be accepted.**

Projects

You will be required a project presentation one of the last two days of class. Your project will be worth 50 points with the presentation being 10 of those. The instructor will grade the actual project while each student will grade each presentation. You will be graded on clarity of subject, overall appeal, lesson plan, activity and presentation. See the attached list for project suggestions.

Schedule

See the attached sheet

Academic Honesty

There are times when it is proper to get help and other times when it is not, specifically during quizzes and tests. I will make sure that you understand the difference. I must, unfortunately, enforce academic honesty; the consequence of academic dishonesty is failure.

Success

Success most often comes with achievement, which, in turn, is the result of dedicated effort and organization. Take time to organize your work. Find a pleasant place to study, and go there consistently. Use the best part of your day, or what is left of it after classes, to study. Make a commitment to getting the job done, and you probably will find success.

Although it is a cliché, it is still true: those that don't give up and consistently work hard come out on top (even when they start at the bottom).

If you run into problems that you cannot solve, get away from them for a while. Often a brief break "allows" approach to the problem to surface.

Work with a partner or two, but make sure that your group is an academically healthy one. A healthy group has common goals, one of which is to understand the material and get the work done WELL, not just completed. Use your group members as resources. Remember that you learn by teaching. Also, remember that there is only one of me and many of you, so be patient.

Finally, if you have a problem with something, come talk to me. Have a very productive and exciting quarter!

