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**Office Hours: 11:00-  
11:50, M-F**

If you need special  
provisions, please let  
me know.

### **Course Philosophy**

The purpose of this  
course is to develop a  
working knowledge of  
those mathematics  
notions aligning with the  
NCTM Standards for

### **Schedule**

Weeks 1 and 2,  
Problem Solving  
and Number

# Math 164

# Foundations of Arithmetic

Meeting 10:00-10:50

M-F in Hertz 120

**Daily Outlines**

**Text**

## Elementary Teachers

Student Outcomes for  
Math 164

Broadly speaking, successful students in Math 164 should be able to demonstrate the following:

1. Knowledge of the NCTM Content Standards and their applications sufficient to teach mathematics in grades one through eight.
2. Knowledge of the NCTM Process Standards and their applications sufficient to teach mathematics in grades one through eight.
3. Knowledge of the NCTM Standards Principles and their applications sufficient to teach mathematics in grades one through eight.
4. Knowledge in mathematics sufficient to pass the West-B professional education entrance exam.

## Systems Chapter 3

Weeks 3 and 4,  
Integers, Patterns,  
and Algebra,  
Chapter 4, **Test 1**

Weeks 5 and 6,  
Rationals,  
Irrationals, and  
Probability Chapter  
5, **Test 2**

Weeks 7 and 8,  
Decimals,  
Geometry, and  
Proportions  
Chapter 6

Weeks 9 and 10,  
Statistics, Chapter  
8

**Comprehensive  
Final Exam,  
Wednesday,  
December 5,  
8:00-10:00 in our  
regular room.**

### How To Do Well in This Class

1. Come to class every day.
2. Keep up with the assignments; It is best to do



## 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 WELL, 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" an 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

homework every day. Homework will be collected on Monday.

3. Read the text; it is a good one with lots of valuable information for working teachers.

4. Work with another person or two, as long as you work well together.

5. Expect to have to think! To understand concepts, there is no substitute for it.

6. Do your BEST work; settle for no less!

### Homework

1. Homework will be collected on Mondays. All assignments from the previous week up through Thursday will be collected then.

2. You can earn 0, 1, or 2 pts on each assignment, depending on completeness, neatness, correctness, and work shown.

## Assessment

2 Tests: 1/3 of final grade

2+ Projects: 1/6 of final grade

Homework: 1/6 of final grade

Final Exam: 1/3 of final grade

## Final Grading

93-100% A

90-92% A-

87-90% 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-

teaching. Also, remember that there is only one of me and many of you, so be patient with me.

Finally, if you have a problem with something, come talk to me. I will try to act always in your best interest and with your input. Have a very productive and exciting quarter!

3. To receive credit, homeworks MUST be in order, oldest to newest, fixed with a paper clip. Each assignment MUST have **your NAME, the complete text SECTION NUMBER, and the PAGE NUMBERS of the assignment (if from the book) in upper RIGHT HAND CORNER.** Your homework will not be graded, if it is not neat and presentable in this manner.

Below 60% F