

MATH 211 SYLLABUS: FALL 2007
FOUNDATIONS OF ELEMENTARY MATHEMATICS I

Professor: Klay Kruczek
 Office: AA 208

Phone: 503-838-8829
 Email: kruczekk@wou.edu

Time	Monday	Tuesday	Wednesday	Thursday	Friday
8-9		Math 211		USUALLY NOT ON CAMPUS	
9-10	Math 211	Math 211	Math 211		Math 211
10-11	<i>Office Hour</i>	<i>Office Hour</i>			
11- 12		Lunch	<i>Office Hour</i>		<i>Office Hour</i>
12 - 1	Math 396	Math 396	Lunch		Math 396
1 - 2	Lunch				
3 - 4	<i>Office Hour</i>	Meetings	<i>Office Hour</i>		
4:30-6:30	Math 494/594		Math 494/594		

Please feel free to drop by my office during my office hours for help. You do not need to make an appointment to come to office hours. At times other than my listed office hours you are welcome and encouraged to call or email me with questions about the course. If you have direct scheduling conflicts with my office hours, please let me know.

COURSE PREREQUISITE

Math 095 or 099 (with grade C- or better), appropriate placement on the Math Placement Exam or appropriate SAT or ACT scores.

REQUIRED COURSE MATERIALS (for the entire 211, 212, 213 series)

- Textbook, *Mathematics for Elementary Teachers: A Conceptual Approach*, 7th Edition, Bennett and Nelson
- Activity book, *Mathematics for Elementary Teachers: An Activity Approach*, 7th Edition, Bennett, Burton and Nelson
- Manipulative Kit, *Mathematics for Elementary Teachers*, 7th Edition
- A scientific calculator with at least the capabilities of a T. I. – 83 is required for the 211-212-213 course series. Please see me if you are purchasing a new calculator. Cell phones MAY NOT be used for calculators during exams.

Other Materials

- A large 3 ring binder ▪ At least six dividers that can be labeled

CLASS WEB PAGE

There will be a link for the Math 211 webpage (where many course items will be posted) on my home page: <http://www.wou.edu/~kruczekk>

In particular, the class webpage: "Math 211: Assignments & Activities" will be linked to your Math 211 webpage and will include the class schedule, homework assignments and due dates.

COURSE STRUCTURE

All classes will be a mix of an interactive lecture, hands-on activities and problem solving sessions.

- Please bring your text and your manipulative kit to class every day.
- Please bring your activity book to class as noted on the class schedule & assignments webpage.

COURSE CONTENT

This course is designed for students planning to be elementary or middle school teachers. The work in this course will include learning and reviewing the mathematics you learned before and learning how students, particularly children, learn mathematics. For many activities and topics you will be exploring the material from the perspective of the students you will be later teaching. It is expected that you can do basic operations with numbers. Our goals for this class are that you should:

- Gain deeper and clearer understanding of basic mathematical concepts
- Gain deeper and clearer understanding of how children learn mathematics
- Experience problem solving and the use of the Oregon Scoring Guide
- Experience hands-on activities to facilitate the above goals
- Be expected to write about mathematics
- Be exposed to resources that help connect the concepts you are learning now to your future as teachers.

Please see the NCTM web page about standards: <http://www.nctm.org/standards/>

Specifically, we will look at: Mathematical Problem Solving, Set Operations, Whole Number Properties and Algorithms and Integer operations.

ATTENDANCE & VOLUNTEERING

Daily attendance is required for your success in this course. If you miss class it is your responsibility to ask a classmate for notes on the material that you have missed. Volunteers will be asked to share with the class; your willing participation is part of your attendance & volunteering grade.

READING THE TEXT

You will be expected to carefully and completely read each (assigned) section in your textbook. It is a good idea to briefly read the assigned section before class **AND** before you start your homework. If you carefully write out the examples in the text and work out the steps, you will find that you have a deeper understanding of the material. Writing out examples is also a successful technique for pinpointing exactly where you become confused on a problem that you do not understand. I encourage you to ask questions about the examples presented in the book both in class and during office hours.

HOMEWORK

There will be a variety of homework assignments given in this course. Assignments will be posted on your class assignments webpage. These assignments will include but not be limited to the following.

<u>Assignment Source</u>	<u>Assessment Method</u>
BBN Online Learning Center Applets	Direct grading
Textbook questions	Weekly Homework Quizzes
Activity book questions	Weekly Homework Quizzes
	Direct grading
Problems of the Week	Direct grading
K – 8 Book Reviews	Direct grading

MATH 211 HOMEWORK & HOMEWORK QUIZZES

Online Homework Questions

The Bennett/Burton/Nelson Online Learning Centers will be linked to your Math 211 webpage. Each chapter in the book has a corresponding interactive mathematics applet in the Online Learning Center. At appropriate times during the term, you will be asked to explore the applets for Chapters 1 - 4 and write a brief summary of your experience. Due dates will be posted on your 211 schedule and assignments webpage.

Recommended Homework Questions

These will usually be odd-numbered textbook questions with short answers available in the back of the book and some activity book questions. You are expected to work these problems in an informal fashion and check that you are obtaining the correct answers.

Required Homework Questions

These will generally be even-numbered, Writing-Discussion and Making-Connections textbook questions and odd and even-numbered activity book *Connections* questions. You are expected to formally write up these questions and carefully write up the solutions to these questions. Some questions will be turned in for direct grading. These will be listed as (TI) on your class schedule and assignments webpage.

Required Homework Quiz

Six short homework quizzes will be given periodically during the 1st 10 minutes of class. A sample quiz may be found at the end of this syllabus.

- Each quiz will list 2-5 questions from your recently assigned **REQUIRED** homework. The homework sections covered on the quiz will be listed on your 211 assignments and activities webpage.

Homework Quiz Procedures

- Using your COURSE NOTEBOOK you will be asked to write down what you have written in your homework for those questions.
- Work must be shown for credit. If you don't have something written out in your notebook, you will not have something to write on the quiz.
- You MAY NOT use your textbook, activity book, calculator, cell phone or manipulative kit during your homework quizzes:

Completing your homework in a timely fashion will be integral to your success in this course. You will find that if you do not do all of your homework you will not succeed in learning the material covered in this course.

Problems of the Week

As we begin our path as teachers we will begin to focus on problem solving skills. Four times this term, you will be assigned special problems to help you focus on your problem solving skills. Detailed instructions will be provided.

K – 8 State Adopted Text Review

During the term you will be asked to go to the Hamersly Library, find and review a few state-adopted K – 8 Mathematics textbooks. Detailed instructions will be provided.

TIME SPENT ON MATH 211 OUTSIDE OF CLASS

It is a standard academic rule of thumb to spend 2-3 hours out of class for every hour in class while studying mathematics or science. Thus the expectation is that you will spend 8 - 12 hours per week outside of class studying and working on the content of Math 211. Set up a regular schedule for yourself and stick with it. Success in mathematics is often directly linked to effort and regular practice.

COURSE NOTEBOOK

File all of your course materials in your course notebook. For your notebook please use a large 3 ring binder divided into at least the following, clearly labeled, sections. You will need a well-organized notebook for your weekly homework quizzes and while studying for class exams.

1. Course Paperwork (syllabus, schedule notes, etc.)
2. Class Notes and Activities
3. Homework (you may wish to divide this in several sections)
4. Problems of the Week
5. Homework Quizzes and Exams

EXAMS AND THE FINAL EXAM

There will be three “midterm” exams and final exam in this course. The midterm exams will be cumulative but will emphasize the recently covered material. The cumulative final exam will be offered on Monday 12 - 2p.m. of finals week. Makeup exams will only be available in the case of documented emergency or a documented university sanctioned absence from class. Prior notification and my agreement are required.

LATE POLICY

25% deduction per class day (MTWF). All work is due by 4:30 p.m. Work turned in after 4:30 p.m. = the next calendar day. No notification is needed to turn work in late. Turning in one or two items late should not have a large impact on your overall course grade. Excessively turning in work late will have a strong impact on your overall course grade.

EXCUSED LATE WORK

Excused late work will only be accepted in the case of documented emergency or a documented university sanctioned absence from class (examples: student teaching in the education program, university representation in a music presentation, etc.). Prior notification and my agreement are required. Ordinary illness of one or two class days does not count as a documented emergency, even if you have a note from a doctor.

COURSE GRADING

<u>CLASS ITEM</u>	<u>COURSE PERCENT</u>
Class Volunteering	EC
Homework Quizzes	15%
Graded HW & POWs	35%
Three 10% Midterm Exams	30%
Final Exam	20%
TOTAL PERCENT	100%

STANDARD GRADING SCALE FOR THIS COURSE

(Total % for the course, usual rounding rules apply)

%	Grade	%	Grade	%	Grade	%	Grade	%	Grade
93 – 100	A	90 – 92	A-	87 – 89	B+	83 – 86	B	80 – 82	B-
%	Grade	%	Grade	%	Grade	%	Grade	%	Grade
77 – 79	C+	73 – 76	C	70 – 72	C-	60 – 69	D	Below 60	F

APPROPRIATE CLASSROOM BEHAVIOR

You are ultimately responsible for your own attendance and performance. Disruptive classroom behavior of any kind is inappropriate. Proscribed Conduct for all students is described in the University Catalog. In particular for this course any student found cheating on an exam or copying from another student's exam paper will receive a zero on that exam. See http://www.wou.edu/las/natsci_math/math/academicdishonesty.html for the Academic Dishonesty Policy.

LEARNING DISABILITIES

If you have a documented learning disability, please talk to me during the first few days of class, I will be more than happy to accommodate you in any way that I can. If you have a documented disability which requires any academic accommodations, you must go to the Office of Disability Services (ODS) for appropriate coordination of your accommodations. You can drop by APSC 405 or contact ODS at (503) 838-8250 (V,TTY) to schedule an appointment.

INCOMPLETE POLICY

An Incomplete can only be granted for a student who is passing a class and has a documented emergency that prevents them from completing the course.

MATH 211 HOMEWORK QUIZ, FALL TERM 2007

Name: _____

Quiz SAMPLE

THIS IS A TEN MINUTE QUIZ

Score: _____/10

Quiz Rules

- You **must** use your CLASS NOTEBOOK.
- You MAY NOT use your textbook, calculator, cell phone or manipulative kit.
- You MAY NOT use any materials other than your notebook and writing tools.

Specific Instructions

- Find each of the following problems in your text homework write up.
- Copy EXACTLY what you have in your homework write up in the space provided on this quiz, write neatly and clearly.
- Leave BLANK problems you have not done.
- Only problems with work shown that leads to the answer will receive credit.

1. Section 1.1 #22b

2. Section 1.2 #44c

3. Section 1.2 #24

4. Section 1.3 #10d