MTH 213 : Foundations of Elementary Mathematics III

Professor: Bryce Chriestenson

Fall 2015

1 Course Information

- MTH 213 - Fall 2015- Foundations of Elementary Mathematics III

- Date/Time: M,T,R,F: 11:00-11:50, except Tuesday 10:00-11:50

- MNB 103, except Fridays in MNB 110

2 Contact Information

- Office: Maaske 225

- Course Webpage:

  http://www.wou.edu/wp/chriestensonb/teaching/mth-213-fall-2015/

- E-Mail: chriestensonb@mail.wou.edu

- Office Phone: (503) 838-9207

3 Office Hours

- Monday, Tuesday: 14:00 - 14:50

- Wednesday: 11:00 - 11:50

- Thursday: 13:00 - 14:50

4 Course prerequisite

MTH 211 and MTH 212 with a grade of C- or better.

5 Required materials

5.1 Text and Online Access

- Textbook: *Textbook, Mathematics for Elementary Teachers: A Conceptual Approach*, 9th Edition, Bennett, Burton and Nelson

- Activity Book: *Mathematics for Elementary Teachers: An Activity Approach*, 9th Edition, Bennett, Burton and Nelson

- Manipulative Kit: *Mathematics for Elementary Teachers*, 9th Edition

- Connect Access, for online homework. Use the listed URL to register with an access code, credit card or to use an existing 211-212 Connect account (use existing password). Instructions for each form of registration are clearly given on the log in page:

  http://connect.mheducation.com/class/mth213-fall2015-chriestenson

  If you need help with Connect:

  - Visit: www.mhhe.com/support
  - Call: (800) 331-5094
    * Sunday - 12:00 pm - 11:00 pm
    * Monday - 8:00 am - 11:00 pm
    * Tuesday - 8:00 am - 11:00 pm
    * Wednesday - 8:00 am - 11:00 pm
    * Thursday - 8:00 am - 11:00 pm
    * Friday - 8:00 am - 6:00 pm
    * Saturday - 10:00 am - 4:00 pm

- Moodle Access, for online vocabulary quizzes.

- Protractor and Compass: For geometric constructions.

6 Grading criteria for course

Grade Distribution

Online Homework	10%
Vocabulary Quizzes	10%
Activity Book	10%
Computer Labs	10%
Midterm Exam($\times 2$)	20%
Final Exam	20%

Final Grade Breakdown

$100 - 93$	A	$90 - 92.9$	$A-$
$87.0 - 89.9$	$B+$	$83.0 - 86.9$	B
$80.0 - 82.9$	$B-$	$77.0 - 79.9$	$C+$
$73.0 - 76.9$	C	$70.0 - 72.9$	$C-$
$67.0 - 69.9$	$D+$	$63.0 - 66.9$	D
$60.0 - 62.9$	$D-$	$0.00 - 59.9$	F

7 Course Work

You will be expected to complete all of the work assigned to you. You will be expected to read the text book, even if such a reading is not explicitly assigned. They types of work you will have to do in this class are:

- Online Homework: You will have weekly assignments in Connect. They will be assigned each Monday, and they will be due each Friday at 11:59 pm. These will be conceptual questions about the course material.

- Vocabulary Quizzes: Each weak you will have a vocabulary quiz. You will find these quizzes in Moodle. The purpose of these quizzes are to ensure that you are reading the text book. They will be assigned Monday morning and will be due the following Sunday at 11:59 pm. The quizzes will be timed. You will have either 5 or 15 minutes to complete each quiz. Each quiz may be take two times. The grade that you receive on a quiz will be the greater of the two scores.

- Activity Book: Each week on Tuesday class will be two hours long. During this time you will be asked to work through an activity from the activity book and to complete the exercises for that section. These will involve your manipulative kit, which you should always bring to class. You can work with a partner on these. If you finish them before the end of class you may hand them in to me. Otherwise you may take them home to finish them, and they will be due at the beginning of class on Thursday.

- Computer Labs: Each Friday class will be held in the computer lab MNB 110. Most Fridays you will be given a computer assignment to complete, usually using Geometers Sketch Pad. Assignments will be submitted electronically and submitted via Moodle. They will be due at the beginning of class at the beginning of class the Tuesday after when they where assigned.

- You will be asked to do in class worksheets during class. The purpose of these is to create discussion. You may work with a partner on these. These will usually involve your manipulative kit which you should always bring to class.

- Exams: You will be given two midterm exams and a final exams. The midterm exams will be given during class. The midterms will be given on Tuesdays so you will have two hours to complete them. The first will be given during week 4 on Tuesday, October 20. The second will be given during week 7 on Tuesday, November 10. The final exam will be Monday, December 8th from 12:00 - 1:50 pm.

8   Course Objectives

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.

In specific we will look at: Plane Figures, Polygons and Tessellations, Space Figures, Symmetric Figures, Systems of Measurement, Area and Perimeter, Volume and Surface Area, Congruence and Constructions, Congruence Mappings and Similarity Mappings.

9   Attendance Policy

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. I will not have discussion notes available if you have missed class, nor will I repeat my discussion during office hours.

Exams can only be made up or taken in advance with a documented university sanctioned absence from class (choir, sports, etc.) or possibly for a serious documented emergency. Ordinary illness (such as a cold) or any non-university sanctioned class absence does not count as a documented emergency, even if you have a doctors note.

10   Skills Test Policy

The Mathematics Department has stipulated that a Skills Test for MTH 213 assessing competency in some basic math skills will be required. Each MTH 213 student must pass the Skills Test by the end of the Friday before finals week. To pass, you must get at least 8 of the 10 problems correct. **Any student not passing the Skills Test at least once by the deadline will receive an F in the course. This test MUST be passed in order to pass the class.**

The skills test will be taken in class on Monday, October 5. This is your one opportunity for the week (no make ups). Beginning during week 2 (after the in-class attempt) retakes will be administered at drop-in group retake sessions in MNB 110 (Retakes may be taken multiple times per week). The schedule of when you can retake the skills test and more information about the skills test can be found on Sharon Price's website: `http://www.wou.edu/wp/pricesl/`

YOU MUST PASS THE SKILLS TEST ON OR BEFORE THE FRIDAY BEFORE FINALS WEEK. IF YOU DO NOT, YOU WILL NEED TO RETAKE MTH 213 .

11 Incomplete and Late Homework Policies

- A grade of 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, after Friday of the seventh week of class, which is the last day for dropping a course with W grade.

- Each out-of-class assignment will have a specific due date and time. If you are unable to complete or hand in the assignment before the specified time then please contact the professor 24 hours before when the assignment is due so that accommodations can be made. **If a student does not turn in an assignment, and does not contact the professor 24 hours before when an assignment is due, then the student will receive a 0 for the assignment.**

12 Information on the Math Center (drop in tutoring)

The Math Center is a quiet and open room in the library, a relaxing place to study and work on your math homework. We staff experienced and knowledgeable tutors who are dedicated to helping you master the skills you need to succeed in your math classes. You can drop by at your convenience (during our open hours), work on your homework, and when you have a question, simply raise your hand and someone will be there to help you.

Visit the website: `http://www.wou.edu/mathcenter` for open hours and a schedule of available tutors.

13 Wolf Connection System

If the instructor determines your performance in this class is placing you at academic risk, you may be referred to Jesse Poole, Westerns Student Success Specialist. Jesse will offer to work with you to address issues and develop a student success strategy. **Regardless of whether a referral has or has not been made, you are ultimately responsible for tracking your own progress in this course.** If you would like to meet with Jesse regarding any academic struggles you are experiencing, please contact the Academic Advising and Learning Center at 503-838-8428 or email at tutoring@wou.edu

14 Accommodations

If you have a disability for which you are or may be requesting an accommodation, you are encouraged to contact both your instructor and the Office of Disability Services, APSC 405, or at 503-838-8250, as early as possible in the term. Students needing medical or mental health care can access the Student Health and Counseling Center by calling 503-838-8313, emailing at health@wou.edu, or by walking in to schedule an appointment.

15 Veterans

Veterans and active military personnel with special circumstances are welcome and encouraged to communicate these, in advance if possible, to the instructor.