

Syllabus for Math 213
Foundations of Elementary Mathematics III
Spring 2014

Instructor: Breeann Flesch

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Schedule:

Time	Monday	Tuesday	Wednesday	Thursday	Friday
8:00					Math 213
9:00	Math 213	Math 213	Math 213		Math 213
10:00	Office Hour	Office Hour	Meeting		Office Hour
11:00					
12:00		Meeting			
1:00	Office Hour		Office Hour		Math 251
2:00	Math 251	Math 251	Math 251		Math 251

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 and would like further help, please let me know.

Course Description:

MTH 213 Foundations of Elementary Mathematics III (4)

Intended for prospective elementary or middle school teachers. Introduction to geometric figures, congruence and similarity, measurement (area, perimeter, volume and surface area). 3 hours of lecture plus 2 hours of lab. **Prerequisite: MTH 212 with a grade of C- or better.** Does not apply toward a math major. (Offered every quarter)

Materials:

- 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 online homework access. Use this list URL to register with an access code, credit card or an existing Connect account:
http://connect.mcgraw-hill.com/class/b_flesch_fall2013
- A scientific calculator with at least the capabilities of a T. I. 83 is required for the 211-212-213 course series. A T. I. 83 or 84 is highly recommended. Please see me if you are purchasing a new calculator.
- Protractor and Compass

Learning Outcomes:

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
- Write about mathematics effectively
- Use 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.

Attendance:

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

*My preferred method of communication is email.

illness (such as a cold) or any non-university sanctioned absence from class does not count as a documented emergency, even if you have a note from a doctor

Grade:

The standard grading scale will be used for this class.

Course assessment:

Online Homework	10%
Written Homework	10%
In-Class Activity Approach	5%
Quizzes	15%
Midterm Exams	20% x 2 = 40%
Final Exam	20%
Pass Math 213 Skills Test	REQUIRED

Skills Test:

You are required to pass a Fractions, Decimals, and Percents Skills Test in Mth213. There are 21 problems. You must get at least 17 of them correct to pass. You have 30 minutes in which to do this. **YOU MAY NOT USE A CALCULATOR.** You must pass the skills test on or before the Friday of dead week. If you do not, you will need to retake Math 213. You will be given one in-class opportunity to pass the skills test. If you do not pass it then, you must retake the test at the group skills test times with Office Coordinator Sharon Price in MNB 116.

Spring Term Group Skills Tests:

- Tuesday: 11:00
- Wednesday: 8:00 & 2:00
- Thursday: 8:00
- Friday: 3:00

Homework:

There will be a variety of homework assignments given in this course. Assignments will be posted on your class assignments webpage. Completing your homework in a timely fashion will be integral to your success in this course. I suggest you set up a homework and reading schedule for yourself and follow it carefully. 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. These assignments will include but not be limited to the following. Due dates will be posted on your 213 schedule and assignments webpage.

Activity Approach Exercises and Activities Homework Questions: These are assigned from your Activity Approach Exercises and Activities questions.

Lab & Geometers Sketchpad (GSP) Assignments: We will meet in the computer lab once per week and will work using either the Virtual Manipulatives (VMK) or Geometers Sketchpad; some VMK work will need to be printed in the lab and turned in for grading.

Scavenger Hunt: Each student will be responsible for one Scavenger Hunt topic; see the handout “Scavenger Hunt Directions.”

Connect Online HW: This homework will be similar to text homework questions, but will be assigned and completed online at <http://connect.mcgraw-hill.com>.

Quizzes:

Quizzes will be a regular part of the class and will be listed on the class webpage. There will be two types of quizzes, and they are listed below.

Homework Quizzes (Text): Some Conceptual Approach Exercises and Problems will be assigned as “Quiz Prep” homework. You are expected to master the material listed under Quiz Prep, and the quiz will be based on this material. You will not be allowed a calculator, manipulatives, or notes (unless specified). You are expected to master the material listed under Quiz Prep.

Vocabulary Quiz This will be a short quiz covering vocabulary from recent sections, which will be listed on the schedule.

Exams:

There will be two “midterm” exams and a final exam in this course. The midterm exams will be cumulative but will emphasize the recently covered material. The final exam will be cumulative.

The final exam will be offered at a group time on finals week. See your course webpage and the official final exam schedule for the exact date and time.

Makeup exams will only be available 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. My voice mail and email are always on; there is no excuse for not contacting me prior to missing an exam

Late Policy:

- Connect assignments begun before the due date can continue to be worked on after the due date. The computer will automatically deduct 20 % per day for late Connect Homework.
- Late Turn In Homework (Activity Book Written Exercises and Activities, Applets, Scavenger Hunt, GSP, VMK, etc.) will not be accepted unless you have a documented emergency filed with the Student Affairs office and my agreement, or a documented University Sanctioned Absence from class which you have reviewed with me, and devised a plan for, in advance of the absence. Your lowest written (non-Connect) homework score will be dropped.
- Quizzes are given at the beginning of class. Makeup quizzes are not given early or late. Your lowest two quiz grades will be dropped.

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 then to carefully read the section before you start your homework. If you carefully write out the examples and work out all of the steps you will find that you have a deeper understanding of the material. Writing out the examples is also a successful technique for pinpointing exactly where you become confused on a problem that you do not understand. You may ask questions about the text both in class and during office hours.

WOU email account:

All official university and class business and announcements will be directed to your WOU student email account. If you do not regularly check this account, please log in to this account and FORWARD your WOU email to an account that you do regularly access. Use the Options → Mail → Local Account → Forwarding path.

Time spent on Math 213 outside of class:

It is a standard academic rule of thumb to spend two to three hours out of class for every hour in class while studying mathematics or science. This is a 200 level mathematics course and the expectation is that you will spend 8 to 12 hours per week outside of class studying and working on the content of Math 213. Set up a regular schedule for yourself and stick with it.

Free Tutoring:

There is free Math 213 tutoring in the Math Tutoring Center (HL 228). See www.wou.edu/math/tutor for specific 211-212-213 tutoring hours. Other tutors in the tutor center may also be able to help you with Math 213, but it is not guaranteed. You may find the tutoring center is a great place to sit and work, even if you don't have questions. If the center is busy, you may find nice areas to sit and study near the center (library, second floor) and then you can check in with the center tutors if you need help.

Wolf Connection System Referral Program: Students in this class may be referred to the WOU Student Success Specialist (SSS) if the instructor determines their performance in the class is placing them at academic risk. The SSS will offer to work with referred students to address issues and develop a student success strategy. Irrespective of whether a referral has or has not been made, you are ultimately responsible for tracking your own progress in this course.

Appropriate Classroom Behavior: You are ultimately responsible for your own attendance and performance. It is expected that electronic devices such as cell phones will be turned off during class. Proscribed Conduct for all students is described in the University Catalog.

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 a small component of the course.

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 that requires academic accommodations or auxiliary aids at Western Oregon University, please contact the Office of Disability Services (ODS). ODS is located in the APSC, Room 405, Phone 503-838-8250 V/TTY or email at ODS@wou.edu.

Veterans and Active Military Personnel: Veterans and Active Military Personnel with special circumstances are welcome and encouraged to communicate these, in advance if possible, to the instructor.