

# MATH 394: Introduction to Geometry for Elementary Teachers

Emphasis for Early Childhood/Elementary Authorization<sup>1</sup>

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Time	Monday	Tuesday	Wednesday	Thursday	Friday
8-8:50					
9-9:50					
10-10:50	Office Hour	213 (MNB 104)		Office Hour	Usually not
11-11:50	213 (MNB 104)		213 (MNB 104)	213 (MNB 110)	on campus
12-12:50	Lunch	Office Hour	Lunch	Lunch	
1-1:50	Office Hour		Office Hour		
2:00-3:50	394 (MNB 103)		394 (MNB 103)		

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 PREREQUISITE

- Math 211 and 213, each with a grade of C- or better.

## REQUIRED COURSE MATERIALS

- Textbook: *College Geometry, A Problem-Solving Approach with Applications*, Second Edition, Musser, Trimpe and Maurer

### Geometry Tools

- High quality pencils and erasers: (For mechanical pencils, use lead size HB 0.7)
- A small amount of graph paper
- A protractor
- A good ruler: Recommended: A thin ruler--plastic or metal
- You may also wish to have scissors and colored pencils (optional)

### Local Geometry Sets

- Bi-Mart & Walmart: \$3-4 (boxed, nice)
- The Dollar Tree: \$1 (in a bag)

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<sup>1</sup> Not valid for Elem/MS authorization levels

### **CLASS WEB PAGE**

There will be a link for the Math 394 webpage (where many course items will be posted) on my home page: <http://www.wou.edu/~beisieg>. In particular, the class webpage: "Assignments & Activities" will be linked to your Math 394 webpage and will include the class schedule, homework assignments and due dates.

### **LEARNING OUTCOMES FOR MATH 394**

Student in this class will demonstrate facility of working with and communicating clearly about:

- polygons, circles, polyhedra and their properties
- measurement
- perimeter, circumference, area, angles, surface area and volume
- the Pythagorean Theorem
- triangle congruence & similarity
- basic geometric constructions

### **COURSE STRUCTURE**

Class will be a mix of an interactive lecture, hands on activities and problem solving sessions. Your attendance and participation in class is crucial and required in this course. We will regularly explore new ideas during class and it will be difficult to make this work up on your own. Some days we will work with concepts and hands-on activities from the text and some days we will work with concepts and hands-on activities from other resources. Details will be posted on the Math 394 homework and schedule page.

- Please bring your text and your geometry tools to class every day.

### **COURSE ASSIGNMENTS & COURSE ASSESSMENT BREAKDOWN**

Details & dates will be posted on the Math 394 homework and schedule page. The following components will be assigned & assessed throughout the term

- Textbook Homework: 30%
- Journal Article Reviews: 20%
- Quizzes: 10%
- Midterm Exam: 10%
- Final Exam: 20%
- Final Project: 10%

### **READING THE TEXT**

It is expected that you will carefully read your text. This text has been chosen because it is an excellent reference. This text focuses on problem solving and has reasonable and thoughtful problems. You will find class to be a more effective learning experience if you read the text section in advance of class.

### **TIME SPENT ON MATH 394 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 300 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 394. Set up a regular schedule for yourself and stick with it. Success in mathematics is often directly linked to effort and regular practice.

## **COURSE EXAMS**

There are two vocabulary quizzes, a midterm exam and a final exam scheduled in Math 394. Exams will contain short answer problems that focus on your problem solving skills and ability to communicate your work will be assigned throughout the term. Details and due dates will be posted on the Math 394 homework and schedule page.

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.

## **FINAL PROJECT**

- There will be final project in Math 394 connecting geometric activities and lesson ideas for children to the outcomes for this course. The final project will include both written and oral presentation components.
- The details of the final project will be provided later in term.

## **COURSE NOTEBOOK**

It is recommended that you file all of your course materials in a notebook dedicated to this course. 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 this course.

The following sections are recommended for your course notebook:

1. Course Paperwork (syllabus, schedule notes, etc.)
2. Class Notes
3. Activity Write ups
4. Text Homework
5. Quizzes and Exams
6. Final Project

## **HOMEWORK LATE POLICY**

There will be a 25% deduction per class day (MW). All work is due by 4:30 p.m. Work turned in after 4:30 p.m. = the next calendar day. No notification is required to turn work in late. It is reasonable to expect that each of us may turn in one or two items a term one or two class days late. This should not have a large impact on your overall course grade. Excessively turning in work late will have a very 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.

## STANDARD GRADING SCALE FOR THIS COURSE

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

### NON ACADEMIC ELECTRONIC ITEMS (INCLUDING CELL PHONES)

The university classroom is an electronic item free area. Using any electronic device for text messaging, receiving or sending a message or listening to any recording during a university class is completely inappropriate classroom behavior.<sup>2</sup> Electronic items should remain *turned completely off* and should remain *completely out of sight at all times* throughout all of your classes. “Quiet” or “vibrate” settings are not turned completely off. Electronic items *may not* be used for any reason during class or during exams and quizzes. Electronic item use during exams or quizzes will be treated as cheating and you will receive a zero score on that exam or quiz.

### APPROPRIATE CLASSROOM BEHAVIOR

You are ultimately responsible for your own attendance and performance. Disruptive classroom behavior of any kind, such as talking during lecture or consistently coming to class late etc., is not appropriate. 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 score on that exam.

### 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,T\*TY) 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.

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<sup>2</sup> If you are in an emergency situation in which you need to have your cell phone on quiet; please speak to me about it before class.