

**Syllabus for Math 394**  
**Introduction to Geometry for Elementary Teachers**  
**Spring 2012**

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**Instructor:** Breeann Flesch

**Contact Information:** office: MNB 126 phone: (503) 838-9489\*  
email: fleschb@wou.edu\* webpage: www.wou.edu/~fleschb

**Schedule:**

Time	Monday	Tuesday	Wednesday	Thursday	Friday
9:00					
10:00					
11:00			Office Hour		
12:00	Office Hour		MATH 396		Office Hour
1:00	MATH 396		MATH 396		MATH 396
2:00	MATH 394		MATH 394		Office Hour
3:00	MATH 394		MATH 394		
4:00	Office Hour				

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.

**Materials:**

- Text: "College Geometry, A Problem-Solving Approach with Applications," Second Edition, Musser, Trimpe and Maurer
- Coursepack: The Math 394 coursepack is available for purchase at the bookstore.
- Calculator: A TI 83 or 84 is highly recommended.
- Geometry tools
  - High quality pencils and erasers
  - Small amount of graph paper

- A protractor
- A good ruler
- scissors and colored pencils (optional)
- Local Geometry sets:
  - Bi-Mart and Walmart \$3-4
  - Dollar Tree \$1

### **Course Description:**

MATH 394 Introduction to Geometry for Elementary Teachers (3)

Examination of intuitive geometry including construction, basic Euclidean geometry, proof, and measure. Two hours of lecture plus two hours of lab. Students may not take both MTH 394 and MTH 494 for their undergraduate program. Does not apply toward a math major/minor. Prerequisite: MTH 213 with a grade of C- or better in MTH 211, 212 and 213 (Offered every Spring quarter)

### **Class 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.

### **Learning Outcomes:**

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

- Polygons and circles
- Polyhedra and their properties
- Measurement
- Perimeter, circumference, area
- Angles
- Surface area and volume
- The Pythagorean Theorem

### **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.

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\*My preferred method of communication is email.

**Class Web Page:**

There will be a link for the Math 396 web page on my home page: <http://www.wou.edu/flesch> .

**Homework:**

Completing your homework in a timely fashion is integral to your success in any course. Exams and quizzes are based on homework problems and in-class activities. Homework will be posted on the website every Wednesday, and collected the following **Wednesday by 2:00 pm** for grading. There will be 9 homework assignments, one due each Wednesday of the term except the first. A general rubric for the grading of a math problem is below. Plus, there will be one article review assignment. The details and due dates are on the website. There will also be 3 quizzes, the dates of which will be posted on the website. The lowest two scores from your homework and quizzes will be dropped. **Late homework will not be accepted. Makeup quizzes will not be given.**

Category	Points
Question is completely answered and an appropriate strategy is used	1
Solution is explained so that another student could understand	1
Solution is accurate	1
<b>TOTAL</b>	<b>3</b>

**Exams:**

There will be two midterm exams, the dates of which will be posted on the website. Makeup exams are generally not given. If you must miss an exam due to a documented emergency or a documented university sanctioned absence from class please inform me ASAP. Cell phones may not be used as calculators during an exam and must be turned off.

**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 and will be done in assigned teams. The final project assignment is included in your coursepack.

**Grade:**

The standard grading scale will be used for this class:

Range	Grade	Range	Grade	Range	Grade	Range	Grade	Range	Grade	Range	Grade
93 - 100	A	87-89	B+	80 - 82	B-	73 - 76	C	67 - 69	D+	60 - 62	D-
90 - 92	A-	83 -86	B	77 - 79	C+	70 - 72	C-	63 - 66	D	< 60	F

Course assessment:

In Class Worksheets (requires attendance and participation)	15%
Homework and Quizzes	30%
Exams	20% x 2 = 40%
Final Project	15%

**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.