

Syllabus

MATH 2420

Mathematics for Elementary Teachers II

Fall 2009

Instructor: Greg Oles
Office: 3210 Old Main
Office hrs.: **MW 10:00–11:00 MW 3:00–3:30 * T 12:00–2:00**
Office phone: 581–7777
Math Dept.: 581–2028 (leave messages here between 7:30–4:30 pm, M–F)
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MATH 2420

The study of geometric relationships [and elementary probability and statistics] using a problem-solving approach and higher order thinking skills. Topics investigated from practical and theoretical viewpoints, emphasizing understanding using concrete modeling, as suitable for pre-service K–8 teachers.

Objectives: Students will demonstrate mastery of elementary probability and statistics;
Students will demonstrate mastery of geometric concepts and geometric problem-solving;
Pass the course with a **C** or better

Text: Beckmann, 2nd edition (Chapters **8–11; 14 & 15**)

Course: Probability & Statistics

Outline:

Basic Ideas of Geometry / point, line, and plane
Length, Area, and Slope of a line / square, rectangle, and triangle
Coordinate Geometry / rhombus and parallelogram
Transformations
Polygons
Circles and Constructions
Similar Polygons
Investigations* and Problem Solving
Volume and Surface Area

Materials: **compass, ruler**
protractor (which may also serve as a straightedge),
colored pencils (4 different colors *at least*)
loose-leaf binder (minimum 1-inch)

Grading Scale:	90 – 100 %	A
	80 – 89	B
	70 – 79	C
	60 – 69	D
	≤ 59.0	F

Grading Criteria: Grading is based upon the following:
10 (12) Quizzes (Q)
3 Exams (Ex)
? Homework (HW) or In-Class (IC) Assignments
Attendance

Final Exam: **Wednesday, Dec. 16, 12:30–2:30 PM** (2420–003)

Important Dates:	Deadline to DROP	Fri. Sept. 4 @ 4:00 PM
	No classes (Labor Day)	Mon. Sept. 7
	No classes (Fall Break)	Fri. Oct. 9
	Deadline to WITHDRAW	Fri. Nov. 6 @ 4:00 PM
	No classes (Turkey Hunt)	Nov. 23 – Nov. 27
	Last Day of Classes	Fri. Dec. 11
	Final Exams	Dec. 14 – 18

Notes: If you miss a class, it is *your responsibility* to check with me, *outside of class*, to receive copies of *notes* and *assignments*. You may email me — but *do not* rely on email to accomplish this!

Make-up Quizzes **There are none, unless** circumstances make one necessary near the end of the semester.

Homework It is *your responsibility to do all* of the assigned Readings and Homework; and to follow any *Homework Guidelines* for grading purposes.

There are special accommodations available for students with disabilities. If you qualify please see me outside of class.

If you are a **student/athlete**, let me know ASAP of any road trips that conflict with scheduled exams.

Students are subject to the *Student Conduct Code* as set forth by this university. Violations of the *Academic Integrity Standard* will be dealt with in the harshest possible manner.