

Geometry for Middle School Teachers
MA 241-001
T/R 2:00-3:15pm
CB 337
Fall 2007

INSTRUCTOR:

Jennifer A. Eli

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Office Hours: Tuesday 11:30-1pm; Thursday 3:30-5pm & By Appointment

REQUIRED TEXTS:

1. Lappan, G., Fey, J., Fitzgerald, W., Friel, S. & Phillips, E. (2004). *Connected Mathematics-Student Edition*. New Jersey: Pearson Education.

- *Ruins of Montarek**

2. Lappan, G., Fey, J., Fitzgerald, W., Friel, S. & Phillips, E. (2006). *Connected Mathematics-Student Edition*. New Jersey: Pearson Education.

- *Shapes and Designs***
- *Covering and Surrounding***
- *Stretching and Shrinking***
- *Filling and Wrapping***
- *Looking for Pythagoras***
- *Kaleidoscopes, Hubcaps, and Mirrors***

* First Edition Student Textbook

** Second Edition Student Textbook

OPTIONAL TEXTS:

1. Kohn, E. (2001). *Cliffs Quick Review Geometry*. New York: Hungary Minds. ISBN: 0-7645-6380-7
2. Lee, C. & Robbins, J. (2004). *Geometry for Middle School Teachers: Companion Problems for the Connected Mathematics Curriculum*.
<http://www.ms.uky.edu/~lee/ma241/ma241notesb.pdf>

ADDITIONAL RESOURCES:

Kentucky Core Content for Assessment & Kentucky Program of Studies
(<http://www.ms.uky.edu/~jrice/teaching.html>)

COURSE MANAGEMENT:

All course materials, homework assignments, announcements and additional resources will be available on **Mathemoodle** (<http://moodle.ms.uky.edu/moodle/>). You will be provided a login, password and enrollment key in order to access Mathemoodle.

MATHEMOODLE	
LOGIN	
PASSWORD	
ENROLLMENT KEY	MA241FA07

GRADING:

Participation	10 %	A	90-100 %
Notebook	10 %	B	80-89 %
Homework	30 %	C	70-79 %
Exams	30 %	D	60-69 %
Final Exam	20 %	E	0-59 %

PARTICIPATION:

Students will be expected to participate in both group and class discussions. In addition, each student will be required to pair with another student to present a complete solution to one ACE problem sometime during the semester. Presentations should be 10 minutes in length. Students will be evaluated on correctness of solution, connections to other mathematical ideas, connections to KY Core Content for Assessment & KY Program of Studies, correct use of mathematical language as well as the overall organization of the presentation.

EXAMS:

Students are expected to work independently on all exams. Students are expected to complete exams without the use of any outside material including notes and textbooks. In the event of a take-home exam, students will be allowed to use their textbook and notes but are still expected to work independently.

Tentative Dates: September 20 & October 25

Final Exam Part I Oral Component-(10%): November 26-30

Final Exam Part II In-class Written-(10%): December 13 (1-3pm)

CHEATING & PLAGIARISM:

The *minimum* penalty imposed by the university for cheating and/or plagiarism is a zero on assignment for first offense; additional penalty of extra work, reduced letter grade, or E/F may be imposed. Minimum penalty of E/F for offense subsequent to "minor" offense. Minimum penalty of suspension for offense subsequent to "major" offense. See *Student Rights and Responsibilities* handbook.

IMPORTANT DATES:

First day of classes	August 22 (Wednesday)
Last day to add a class	August 28 (Tuesday)
Labor Day holiday-no class	September 3 (Monday)
Last day to drop a class without grade	September 12 (Wednesday)
Midterm Report	October 17 (Wednesday)
Last day to withdraw from a class	October 19 (Friday)
Fall Break-No Class	November 21(Wednesday)
Thanksgiving Holiday-No class	November 22-24 (Thursday-Saturday)
Last day of classes	December 8 (Friday)
Final exam	December 12 (Tuesday)

SCHEDULE (Tentative)		
August	23	Review Syllabus; Shapes & Designs: Investigations 1
	28	Shapes & Designs: Investigations 2
	30	Shapes & Designs: Investigation 3
September	4	Shapes & Designs: Investigations 4
	6	Shapes & Designs: Investigation 4
	11	Covering & Surrounding: Investigation 1
	13	Covering & Surrounding: Investigation 2
	18	Covering & Surrounding: Investigation 3
	20	EXAM # 1
	25	Covering & Surrounding: Investigations 3
	27	Covering & Surrounding: Investigation 4
October	2	Covering & Surrounding: Investigation 4
	4	Covering & Surrounding: Investigations 5
	9	Covering & Surrounding: Investigation 5
	11	Stretching & Shrinking: Investigation 1-2
	16	Stretching & Shrinking: Investigation 3
	18	Stretching & Shrinking: Investigation 4
	23	Stretching & Shrinking: Investigations 4
	25	EXAM # 2
	30	Stretching & Shrinking: Investigations 5
November	1	Filling & Wrapping: Investigations 1-2
	6	Filling & Wrapping: Investigations 3
	8	Filling & Wrapping: Investigations 4-5
	13	Filling & Wrapping: Investigations 4-5
	15	Looking for Pythagoras: Investigations 2
	20	No Class (Replaced by Final Exam Oral Component November 26th-30th)
	22	Thanksgiving Holiday-No Class
	27	Looking for Pythagoras: Investigations 3
	29	Kaleidoscopes, Hubcaps & Mirrors: Investigations 1
December	4	Kaleidoscopes, Hubcaps & Mirrors: Investigation 2
	6	Kaleidoscopes, Hubcaps & Mirrors: Investigation 3
	13	FINAL EXAM