

Math 366
Structure of Mathematics II
Fall 2009
Texas A&M University

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Office Hours: Tuesdays 9:30-11:00am
Wednesdays 10am-Noon

Email: zarestky@math.tamu.edu
This is the best way to get in touch with me. Include your full name and class in any email you send to me. Please check your university email daily.

Webpage: www.math.tamu.edu/~zarestky
Check the website regularly for course information and updates.

Sections: 502 TR 12:45-2:00pm in MILS 216

Course Description

Geometry, measurement and coordinate geometry. Designed primarily for elementary teacher certification. Others must have consent of instructor. Prerequisite: MATH 365 or equivalent with a grade of C or better.

Materials

Textbook

Billstein, Libeskind, and Lott, *A Problem Solving Approach to Mathematics for Elementary School Teachers*, 9th Edition, ISBN 0-321-33179-6

Calculator

Calculators are not permitted in this course.

Mathematical Construction Tools

A quality compass (uses screws to adjust), protractor, straightedge/centimeter ruler, and scissors.

Texas A&M Student ID

Bring your student ID to all exams. Due to privacy issues, I cannot discuss grades over email or phone. If you have a question about your grade, please come see me in person and bring your ID.

Tentative Schedule: All changes will be announced in class or via email.		
Week 1	Sept. 1, 3	Introduction, Sections 9.1-9.2
Week 2	Sept. 8, 10	Sections 9.3-9.4
Week 3	Sept. 15, 17	Sections 9.5, Review
Week 4	Sept. 22, 24	Exam 1 Section 10.1
Week 5	Sept. 29, Oct. 1	Sections 10.2-10.3
Week 6	Oct. 6, 8	Sections 10.4-10.5
Week 7	Oct. 13, 15	Sections 10.6, Review
Week 8	Oct. 20, 22	Exam 2 Section 11.1
Week 9	Oct. 27, 29	Sections 11.2-11.3
Week 10	Nov. 3, 5	Sections 11.4-11.5
Week 11	Nov. 10, 12	Review Exam 3
Week 12	Nov. 17, 19	Sections 12.1-12.2
Week 13	Nov. 24, 26	Section 12.3 Thanksgiving
Week 14	Dec. 1, 3	Sections 12.4-12.5
Week 15	Dec. 8	Review
Cumulative Final Exam	Dec. 16	Wednesday, 8:00-10:00am, MILS 216

Grading

Grade Weights

Quizzes & Activities	30%
Average of 3 In-Class Exams	45% (15% each)
Cumulative Final Exam	25%

Required Averages

A 90–100% B 80–89.9% C 70–79.9% D 60–69.9% F 0–59.9%

Grade Disputes

All grade disputes must be dealt with at the time you receive the exam or assignment. Once you leave class, you have accepted your grade. Due to privacy issues, I cannot discuss grades over email or phone.

Attendance & Make-up Policy

Attendance is required in this class. No make-up exams or assignments are possible without a University-approved excused absence (see the Texas A&M University Student Rules). An absence for a non-acute medical service or regular check-up does not constitute an excused absence. To be excused, you must notify me in writing prior to the date of absence if possible. Consistent with Texas A&M Student Rules, in cases where advance notification is not feasible (e.g. accident, or emergency) the student must provide notification by the end of the second working day after the absence. This notification should include an explanation of why notice could not be sent prior to the class. For injury or illness too severe or contagious to attend class, you must provide confirmation of a visit to a health care professional affirming date and time of visit. The Texas A&M University Explanatory Statement for Absence from Class form will not be accepted. It is the student's responsibility to schedule a make-up. Any assignments given on the day(s) missed will still be due according to the regular schedule.

Quizzes

In-class quizzes will occur about once per week. Quizzes may or may not be announced in advance.

Activities

In-class activities will generally involve group work and occur about once per week. Activities may also be assigned as homework.

Exams

The three in-class exams will each be 75 minutes long. Everything covered in class, on an activity, on the suggested homework, etc. is fair game for an exam. You will be expected to show all of your work.

Final Exam

The final exam is cumulative. The presence of material on the final is roughly proportionate to the amount of time we spend on that material during the semester.

Extra Help & Preparing for Exams*Me*

I am here to help you but I can't help if I don't know there is a problem. I encourage each of you to talk to me, ask questions both in and out of class, come to office hours, send emails, etc. Your best bet for success is active participation!

Your Classmates

We will all learn more and have more fun if we talk to each other. Get to know your classmates. Form study groups and help each other.

Practice

I strongly recommend that you practice problems on your own from the book. See the suggested homework list on p.5.

Note: In this class, you will develop mathematical rules and formulas. It is necessary to know the why of the mathematics involved. You are expected to learn the concepts as well as to become fluent in working the mathematics. Give exact answers, unless otherwise stated.

Videos

Watch Compass and Straightedge Construction Videos:

<http://wks7.itlab.tamu.edu/Scarborough/Constructions.html>