

Syllabus — MAT 300 — Mathematical Structures

SLN: 67326

Spring 2006 — 12:15 – 1:30 pm, Tuesday, Thursday PSA 303

Instructor: Dr. Michelle Zandieh

Office: PSA 633 — Office Hours: TuTh 1:30-2:30 and by appointment

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Course Description:

This course will introduce the topics of logic and set theory, induction, functions, order and equivalence relations, and cardinality with an emphasis in learning to write proofs. The book required for this class is *Mathematical Thinking and Writing: A Transition to Abstract Mathematics*, by Randall B. Maddox.

Homework: Assignments will be due approximately weekly. You are responsible for keeping track of assignments if you miss class. Your score on all homework will be added and then scaled out of **150** points.

Class Participation: Success in this class will depend on your engaging in discussions about the material both inside and outside of class. Your class participation grade will test for a minimal level of such engagement. This part of your grade will be worth **20** points (with an additional 10 points of extra credit possible). Each week of the course you will be able to earn 2 points toward this total. You will receive 2 points for each of up to 10 emails (up to 15 emails for the extra credit) sent once per week to MAT300sp06@hotmail.com. Please see the separate handout titled, *Class Participation Grade*, for the details on this requirement.

Exams: There will be two tests and a final exam. The first test will take place in class on February 21st. The second test will take place in class on April 6th, and the final will be on Tuesday May 9, 12:20-2:10 pm. Each of the tests will be graded out of 100 points. The final exam is worth 150 points for a total of **350** points.

Grades: In total there are **520** points possible for the course. Grades will be calculated using the A+, A, A-, B+, etc. grading scale using percentages out of the 520 points.

Points	Percentage	Grade
504 - 520	97-100	A+
484 - 503	93-96.9	A
468 - 483	90-92.9	A-
452 - 467	87-89.9	B+
432 - 451	83-86.9	B
415 - 431	80-82.9	B-
401 - 415	77-79.9	C+
354 - 400	68-76.9	C
302 - 353	58-67.9	D
< 302	<58	E

Academic Honesty: Anyone found cheating will not be permitted to withdraw and will receive a grade of E for the course. Discussing solutions to homework problems with others is strongly encouraged, but submitting work as your own which is copied or paraphrased from someone else is not permitted. If you are doing things right, your written work will sometimes contain an idea from another source (person, book, other). When this happens, make sure that you have reflected on the idea so that you understand it for yourself. Then write the idea in your own words and give your source due credit. Less than this will be considered cheating.