

**MATH 220—Fundamentals of Discrete Mathematics**  
FALL 2005, SECTION 903

**Instructor:** David Kerr

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**Office:** Milner Hall 121

**Office hours:** TR 10:30–12:00 or by appointment

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**Lectures:** TR 3:55–5:10, Civil Engineering Building 223

**Course webpage:** <http://calclab.math.tamu.edu/docs/math220>

**Textbook:** *An Introduction to Abstract Mathematics*, Bond and Keane

**Course description:** An introduction to discrete mathematics including logic, set theory, combinatorics, graph theory. Prerequisite: MATH 172.

Math 220 is designed to provide a bridge between computational mathematics and theoretical mathematics (“real math”). Thus a major goal is to teach the students how to write proofs.

The required core of topics include logic, set theory, number theory, induction, functions, relations, operations, and combinatorics. Since there is an emphasis on how to create and write proofs, most professors find that these topics are sufficient for the semester. If time permits, the professor may choose to teach other topics, such as graph theory.

**Grading:** Grades will be based on two in-class exams (worth 17.5% each), a cumulative final exam (30%), weekly assignments (15%), and a writing assignment (20%), and will be determined in the standard way: A: 90–100, B: 80–89, C: 70–79, D: 60–69, F: 0–59. The final exam will be held 1–3 p.m. on Tuesday December 13. The in-class exams will be held on Thursday October 6 and Thursday November 3. The weekly assignments are to be handed in every Thursday at the beginning of class. Details regarding the writing assignment will be announced.

**Make-up policy:** In accordance with university regulations, make-ups for missed exams and assignments will only be allowed for a university-approved excuse in writing. Whenever possible, students should inform the instructor before an exam or assignment is missed. Students are required to notify the instructor by the end of the next working day after missing an exam or assignment. Otherwise, they forfeit their rights to a make-up.

**Support services:** The Americans with Disabilities Act (ADA) is a federal anti-discrimination statute that provides comprehensive civil rights protection for persons with disabilities. Among other things, this legislation requires that all students with disabilities be guaranteed a learning environment that provides for reasonable accommodation of their disabilities. If you believe you have a disability requiring an accommodation, please contact the Department of Student Life, Services for Students with Disabilities, in Room 126 of the Koldus Building or call 845-1637.

**Academic integrity:** The Aggie Code of Honor states “An Aggie does not lie, cheat, or steal or tolerate those who do.” See <http://www.tamu.edu/aggiehonor> for university policy concerning academic dishonesty and the rules and procedures of the Honor Council.

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