Math 499E: Introduction to Proof

SPRING 2019, Ref 15343, MWF 11:30 a.m. to 12:20 p.m., January 23 to February 22, Willard 025

Professor: Todd Cochrane
Office: CW 209, TU 11:30 and by appointment
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Prerequisite: Calculus I is recommended.

Homework and Lecture Schedule

Math Help Session

Course Objectives:
* Ability to read and write rigorous mathematical proofs.
* Knowledge of the basics of set theory and logic.
* Ability to write direct proofs, proofs by contradiction, contrapositive proofs and proofs by mathematical induction.
* To prepare students for upper level proof based mathematics courses.
* Help develop critical thinking skills.

Grading: Daily homework assignments (the lowest dropped): 33%
Test 1, Monday, February 11 in class: 33%
Test 2, Friday, February 22 in class: 34%

K-STATE HONOR CODE, CONDUCT CODE, AND INFORMATION FOR STUDENTS WITH DISABILITIES.

A. Statement Regarding Academic Honesty: Kansas State University has an Honor System based on personal integrity, which is presumed to be sufficient assurance that, in academic matters, one's work is performed honestly and without unauthorized assistance. Undergraduate and graduate students, by registration, acknowledge the jurisdiction of the Honor System. The policies and procedures of the Honor System apply to all full and part-time students enrolled in undergraduate and graduate courses on-campus, off-campus, and via distance learning. The honor system website can be reached via the following URL: www.k-state.edu/honor. A component vital to the Honor System is the inclusion of the Honor Pledge which applies to all assignments, examinations, or other course work undertaken by students. The Honor Pledge is implied, whether or not it is stated: "On my honor, as a student, I have neither given nor received unauthorized aid on this academic work." A grade of XF can result from a breach of academic honesty. The F indicates failure in the course; the X indicates the reason is an Honor Pledge violation.

B. Statement Regarding Students with Disabilities: Students with disabilities who need classroom accommodations, access to technology, or information about emergency building/campus evacuation processes should contact the Student Access Center and/or their instructor. Services are available to students with a wide range of disabilities including, but not limited to, physical disabilities, medical conditions, learning disabilities, attention deficit disorder, depression, and anxiety. If you are a student enrolled in campus/online courses through the Manhattan or Olathe campuses, contact the Student Access Center at accesscenter@k-state.edu, 785-532-6441; for Salina campus, contact the Academic and Career Advising Center at acac@k-state.edu, 785-826-2649.

C. Statement Defining Expectations for Classroom Conduct: All student activities in the University, including this course, are governed by the Student Judicial Conduct Code as outlined in the Student Governing Association By Laws, Article V, Section 3, number 2. Students who engage in behavior that disrupts the learning environment may be asked to leave the class.

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