Course Policy

Math 3034, CRN 84560, Introduction to Proofs

Instructor: Dr. Tao Lin (tlin@math.vt.edu)

Course Web Page is hosted by Scholar at VT. It is required to check our course web page daily. All course related materials such as homework assignments, projects, lecture slides, etc., will be posted through our course web page.

Text:

*Mathematical Proofs, A Transition to Advanced Mathematics, 3rd edition* by G. Chartrand, A.D. Polimeni and P. Zhang

Schedule and Class Rooms: 1:25 pm – 2:15 pm, MWF, Hutcheson 204

Office Hours: 2:45 – 3:45 pm MW

My office is in McB 520
You are welcomed to make appointments to see me at other times
You can use E-mail to ask questions at any time
You can also call me at 231-2766

Prerequisites:

Math 1205 – 1206, 1114, 1224, and either 2214 or 2224. A grade of C or better in each of the courses listed or at most one C- and a QCA of at least 2.2 in those courses.

Course Objectives: This course is to provide students with the background necessary to begin formulating and communicating mathematical proofs. One of the goals is to learn how to write (acceptable) proofs for typical mathematical statements.

The course starts from a brief introduction to logic and various basic proof techniques. Then, these proof techniques are put in practice in studying set
theory, mathematical induction, integers, equivalence relations, mappings, and other mathematical topics.

**Course Work:** Course work of Math 3034 consists of reading, homework assignments, in-class exercises/quizzes, 2 midterm tests, and a final exam.

Two tests are in-class and closed-book unless exceptions are specially announced. The dates of these tests are to be arranged according to the progress of class, but they will be announced at least one week in advance.

The location and time for the final exam are determined by the university. Unless otherwise changed, the final exam will be given in our classroom at 3:25 pm on Tuesday, Dec. 15, 2015.

Late assignments will not be accepted. Make-up tests and quizzes will not be given in general. A missed test score due to a documented reason or an extreme situation may be replaced by corresponding part of the final exam or a make-up test given by the instructor after evaluating the reasons.

The Course Home Page should be visited daily for homework assignments, hints, announcements, and other things.

**Grading Policy:**

The final grade will be determined as follows

Homework, quizzes: 35%
Tests: 20% each
Final Exam: 25%

A final score of 90% will be graded as A-, 80% as B-, 70% as C-, and 60% as D-, respectively.

**Honor Code:** Students work on homework assignments, quizzes, tests, and the final exam alone. You may discuss homework assignments with others; however, in writing up solutions to problems in any assignment to be handed in, every student should work alone and certify that what is written accurately represents the student's own understanding of the material. The Virginia Tech Honor Code will be applied in all the course work.