MATH 266-01 (092) Principles of Mathematics

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Office hours: Tuesday 11-12, Wednesday 1:10-2, Friday 9-9:50

Prerequisite and Text: MATH 142 Calculus I. The text is Transition to Advanced Mathematics (Sixth Edition) by Smith, Eggen, and St. Andre.

Course Overview: This course is about the logic of mathematics as a whole, rather than the content of some particular mathematical theory. It is also about the process of problem solving. Instead of calculating complicated integrals, we will consider problems where logic plays a more central role.

Course Goals: (1) Develop proficiency at writing mathematical proofs. (2) Learn some important parts of theoretical math at a deep level.

Grading: 1. Tests (48%). There will be three 50 minute tests. They are scheduled for Monday Feb. 9, Friday, Mar. 20, and Friday Apr. 24.  
2. Collaborative work (10%). Each student is asked to join a study team, consisting of 2 or more members. On some days you'll work in class in with your study team. On these days, one worksheet from each team will be turned in at the end of class, and will be graded.  
3. Homework (18%). Problems will be assigned from the text at the end of each section. There are two kinds of homework: graded and ungraded. Ungraded homework will be assigned almost every class. It is up to you to work these problems. Graded homework will be assigned about every two weeks or so, with the due date announced at the time. You may work on homework as a team, but please write up and turn in your homework individually.  
4. Final Exam (24%) The final is similar in nature to the tests, about 1.7 times longer than a test, and is comprehensive. The final is on Friday, May 8, 8:00 a.m – 9:50 a.m.

Make-up Policy: Homework must be turned in at the beginning of the class for which it is due in order to receive full credit. Team worksheet credit will be given only if you are present in class. Make-up tests will be given only if both of the following are true: (i) a valid pre-notified reason is given, and (ii) the subsequent test has been taken with a grade of "C" or better.