Course Syllabus
Math 290, Fall 2010

Description: Math 290 Fundamentals of mathematics.
Class Time: MWF 11:00-11:50 am
Location: 112 TMCB
Prerequisites. MATH 112 or concurrent registration
Instructor: Todd Fisher

Contact Information:
   Web Page: http://www.math.byu.edu/~tfisher
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   Phone: 2-6153
   Office: 374
   Office Hours: MWF 2-3, other times by appointment

Class Policies

Goals: The goals of this course are to have you communicate mathematics and
understand a logical argument. In both your studies and employment it is essential that
you are able to communicate effectively. This can be in the form of either verbal or
written communication. This course will center on analytical reasoning. In addition, it is
important that you are able to understand the framework of a logical argument.

Homework: Working exercises is crucial to understanding the material. This is
especially true in this course. Homework will be turned in daily by 5pm. After the third
week of class you will be expected to type one assignment per week using Latex. Typed
assignments may be turned in until midnight the day it is due. Late homework will not be
accepted and 6 homework scores will be thrown out.

Text: The text book for the class is Mathematical Proofs: A Transition to Advanced
Wesley. ISBN: 0321390539. The textbook is an excellent resource. It is expected that
you will READ the text. I recommend reading the material before and after the class.

Exams: There will be three midterms and one final exam. The exams will be given in
the testing center. The questions will reflect the exercises assigned for homework and
work done in the lectures. If you are unable to attend an exam due to a university excused
absence make arrangements before the exam. The dates for the midterms are Sept 28-30
for Midterm 1, Oct 26-28 for Midterm 2, and Nov 16-18 for Midterm 3.

Grading: Here is the correspondence of course grade and percentage of possible points
scored: A 90-100%, B 80-89%, C 70-79%, D 60-69%. F 0-59%. It is possible that the
curve will be relaxed, but it won't be made tougher. Homework will be 40% of the total.
Your writing assignments will be 5% of the total. Midterms will be 10% each so 30%
total. The final will be 25% of your grade.
Changes: At the beginning of each class I will make necessary announcements about changes in the syllabus, schedule, etc. Make sure that if you arrive late that you get these announcements. Announcements will also be posted on blackboard.

Cheating: Cheating will not be tolerated and if you are caught cheating in an exam or on an assignment you will receive a failing grade in the course. You are highly encouraged to work on the homework in a group, but you must write up the assignment individually.

Inclement Weather: In the case of the class or campus being closed due to weather any assignments or tests for that day will be delayed to the next class period. The class will not be made up.

Religious Observances: If you need to miss an assignment due to religious observances you will not be penalized. Please see me to make appropriate accommodations.

Preventing Sexual Harassment: Title IX of the Education Amendments of 1972 prohibits sex discrimination against any participant in an educational program or activity that receives federal funds. The act is intended to eliminate sex discrimination in education and pertains to admissions, academic and athletic programs, and university-sponsored activities. Title IX also prohibits sexual harassment of students by university employees, other students, and visitors to campus. If you encounter sexual harassment or gender-based discrimination, please talk to your professor; contact the Equal Employment Office at 801-422-5895 or 1-888-238-1062 (24-hours), or http://www.ethicspoint.com; or contact the Honor Code Office at 801-422-2847.

Students with Disabilities: BYU is committed to providing reasonable accommodations to qualified persons with disabilities. If you have any disability that may adversely affect your success in this course, please contact the University Accessibility Center at 422-2767. Services deemed appropriate will be coordinated with the student and instructor by that office.
### Schedule of Work by Lecture Day

<table>
<thead>
<tr>
<th>Monday</th>
<th>Wednesday</th>
<th>Friday</th>
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<tbody>
<tr>
<td>Aug 30: Introduction</td>
<td>1.1-1.2</td>
<td>1.3-1.6</td>
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<tr>
<td>Sept 6: <strong>No class</strong>, holiday</td>
<td>2.1-2.4</td>
<td>2.5-2.8 2.9-2.10</td>
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<tr>
<td>Sept 13: 2.9-2.10</td>
<td>Latex</td>
<td>3.1-3.2</td>
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<td>Sept 20: 3.3</td>
<td>3.4-3.5</td>
<td>4.1-4.2</td>
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<tr>
<td>Sept 27: Review, 4.3-4.4</td>
<td>No class, midterm 1</td>
<td>4.5-4.6, 5.1</td>
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<td>Oct 4: 5.2-5.3</td>
<td>5.4-5.5</td>
<td>6.1</td>
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<td>Oct 11: 6.1-6.2</td>
<td>6.2</td>
<td>6.3-6.4</td>
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<td>Oct 18: 7.3</td>
<td>8.1-8.2</td>
<td>8.3-8.4</td>
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<td>Oct 25: 8.5-8.6, Review</td>
<td>No class, midterm 2</td>
<td>9.1-9.2</td>
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<td>Nov 1: Order Relations</td>
<td>9.3-9.4</td>
<td>9.5</td>
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<td>Nov 8: 9.6-9.7; <strong>Writing assignment 1 due</strong></td>
<td>10.1-10.2</td>
<td>10.3-10.4</td>
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<td>Nov 15: 10.5, Review</td>
<td>No class, midterm 3</td>
<td>11.1-11.2</td>
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<td>Nov 22: 11.3-11.4</td>
<td><strong>23:</strong> 11.5-11.6</td>
<td>No Class Holiday</td>
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<td>Nov 29: 12.1</td>
<td>12.2</td>
<td>12.3</td>
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<tr>
<td>Dec 6: 12.4</td>
<td>Review <strong>Writing assignment 2 due</strong></td>
<td>Reading Day</td>
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*Note: Numbers in bold indicate readings or assignments due.