Course Syllabus  
Math 190, Winter 2009

Description: Math 190 Fundamentals of mathematics.
Class Time: MWF 2:00-2:50pm
Location: 331 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: 348
   Office Hours: MWF 3-4, 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, as a
student and beyond it is important that you are able to understand the framework of a
logical argument.

Homework: Working exercises crucial to understanding the material. This is especially
true in this course. Homework will be turned in daily by 4pm. 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 textbook 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

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.
Midterms will be 10% each so 30% total. The final will be 25% of your grade. The
writing assignments will be 5%.
**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:** Harassment of any kind is inappropriate at BYU. Specifically, BYU's policy against sexual harassment extends not only to employees of the university but to students as well. If you encounter sexual harassment, gender-based discrimination, or any other inappropriate behavior, please talk to your professor, contact the Equal Employment Office at 422-5895 or 367-5689, or contact the Honor Code Office at 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>Jan. 5: Introduction</td>
<td>Exploration</td>
<td>Communicating mathematics; 1.1-1.2</td>
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<tr>
<td>Jan 12: 1.3-1.6</td>
<td>2.1-2.4</td>
<td>2.5-2.8</td>
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<td>Jan 19: No class, holiday</td>
<td>Latex</td>
<td>2.9-2.10</td>
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<td>Jan 26: 3.1-3.2</td>
<td>3.3</td>
<td>Review</td>
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<tr>
<td>Feb 2: 3.4-3.5</td>
<td>4.1-4.2</td>
<td>4.3-4.4</td>
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<td>Feb 9: 4.5-4.6, 5.1</td>
<td>5.2-5.3</td>
<td>5.4-5.5</td>
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<td><strong>Feb 17: 6.1</strong></td>
<td>6.1-6.2</td>
<td>6.2</td>
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<td>Feb. 23: 6.3-6.4</td>
<td>7.3</td>
<td>Review</td>
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<tr>
<td>Mar 2: 8.1-8.2</td>
<td>8.3-8.4</td>
<td>8.5-8.6</td>
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<td>Mar. 9: 9.1-9.2</td>
<td>Order Relations</td>
<td>9.3-9.4</td>
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<td>Mar 16: 9.5</td>
<td>9.6-9.7</td>
<td>10.1-10.2</td>
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<td>Mar 23: 10.3-10.4</td>
<td>10.5</td>
<td>Review</td>
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<td>Mar. 30: 11.1-11.2</td>
<td>11.3-11.4</td>
<td>11.5-11.6</td>
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<td>Apr 6: 12.1</td>
<td>12.3</td>
<td><strong>12.4 Writing Assignment due</strong></td>
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<td>Apr 13: Review</td>
<td>Reading Day</td>
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