

Math 240
Introduction to Mathematical Thought
Fall 2009

Professor: Pete Goetz
Office: BSS 358

CRN: 42853

Office Hours: Monday 4-5, Tuesday 8-10, Wednesday 3-4, and by appointment.

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Time and Place: MWF in KA 102

Textbook: Mathematical Reasoning: Writing and Proof by Ted Sundstrom, Prentice Hall, Second Edition, 2007. (ISBN 0-13-187718-6)

Pre-requisite: A semester of calculus or consent of the instructor.

Course Topics: Mathematical reasoning, writing, and proofs; sets, functions, topics in discrete mathematics, problem formulation, and problem solving.

Course Outcomes: The four goals for a student in this course are:

- 1) Learn to carefully read and understand mathematical definitions and proofs.
- 2) Learn how to construct examples and mathematical proofs.
- 3) Learn how to write proofs conforming to accepted guidelines of mathematical exposition.
- 4) To be exposed to some of the basic mathematical material that will be needed for further study of mathematics.

Assignments: The assignments for this course fall into two categories:

- 1) Preview Activities.
- 2) Section Exercises.

Preview Activities: These are at the beginning of each section of the textbook. It is **very important** that you complete these activities **before** the corresponding material is covered in class. It is mostly your responsibility to complete these activities but on some days (see the timeline), there will be a short reading quiz, to check that you have

completed the corresponding activity. **No makeup quizzes will be given.** I will drop your lowest quiz score.

Section Exercises: There will be a set of exercises collected once a week (see the assignment handout) at the beginning of class. These must be written neatly and carefully. Due to limited time, the large number of students in this class, and the CSU budget crisis, I will only be able to grade a small subset of the problems. Both mathematical content and exposition will be considered when I grade your work. Both are equally important. **Absolutely no late homework will be accepted.** I will drop your lowest homework score.

Exams: We will have two midterm exams during the semester in addition to a cumulative final exam. The dates for these exams are given below. Mark your calendars and plan accordingly as **no makeup exams** will be given. Each exam will consist of four parts: definitions, theorem statements, true or false, and statements to prove.

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| Midterm Exam 1 | Friday, October 2 |
| Midterm Exam 2 | Wednesday, November 18 |
| Final Exam | Monday, December 14, 10:20 am – 12:10 pm |

Academic Integrity: Please see http://studentaffairs.humboldt.edu/judicial/academic_honesty.php for HSU's policy on academic honesty.

Grading Components:

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| Reading Quizzes | 50 points |
| Weekly Assignments | 100 points |
| Midterm Exam 1 | 75 points |
| Midterm Exam 2 | 75 points |
| Final Exam | 100 points |

Emergency Evacuation Procedures: The evacuation plan for the classroom is posted on the orange signs. Also review http://studentaffairs.humboldt.edu/emergencyops/campus_emergency_preparedness.php for information on campus Emergency Procedures. During an emergency, information can be found on campus conditions at: 826-INFO or www.humboldt.edu/emergency.