

# Discrete Mathematics

Pacific University

Math 240

Spring 2009

## Class Time and Location

MWF 10:30-11:20, Price 204.

We will meet sometimes 10:30-11:35 to make up for days when there will be no class.

## Instructor Information

Michael Boardman

Price 209, 352-1496

boardman@pacificu.edu

<http://www.math.pacificu.edu/~boardman>

Office hours: Mondays, Tuesdays &

Wednesdays 1-1:50, Thursdays 2-2:50

## Textbook

Discrete Mathematics with Applications,  
by Susanna Epp, *Third Edition*.

## Prerequisites

To be enrolled in this course, you should have at least one of the following.

- Passed Math 125 at Pacific with a C or higher.
- Mathematics placement at Pacific into Math 226 or higher.
- Earned Pacific transfer credit for Math 125 from another institution

## Office Visits

I expect to see each of you during the term in my office. I am available to answer questions both in my office hours and at other times. If it is not an office hour and I am swamped, I might ask you to stop by a little later. You are responsible for material presented in class. All exams must be taken in class on the days they are scheduled. The only exception is for a Pacific University event, subject to my approval.

## Primary Course Goals

This course is intended to help you move from the calculation-based mathematics you have learned in earlier mathematics courses to higher-level mathematics and computer science where logic and proof play a major role.

After successfully completing this course, you will

- understand the basics of symbolic logic.
- be prepared to use logic and proof in later mathematics and computer science courses.
- be able to use standard proof techniques such as mathematical induction and proof by contradiction.
- understand fundamental discrete mathematics topics such as counting principals, equivalence relations, graphs and trees.

## Homework (25%)

Homework is assigned and collected approximately once per week. You are responsible for attempting all homework problems. Both completeness and accuracy will determine homework grades. No late homework is accepted under any circumstances. You may ask me for help on homework exercises. When discussing homework with others, you are not to have them do the problems or give away any solutions. Be careful that work you turn in is your own and that you understand what you've written.

Homework must fulfill the following guidelines:

- Neat and on 8½"x11" paper
- Multiple pages stapled before class
- On the first page, clearly write your name, assignment number, and date

### Midterm Exams (45%)

We will have three midterm exams. They are tentatively scheduled for **March 4**, **April 8**, and **May 6**.

### Final Exam (30%)

The final exam is **Wednesday, May 20, 8:30-11 am**. You must take the final at this time. Please make your travel arrangements accordingly.

### Attendance

It is imperative that each of you arrives to class on time every day. Students with a record of arriving late or missing class will receive a warning from me. If the behavior continues, further action (from a lower final grade to dismissal from the course) will result. If you will miss a class because of an official Pacific University event, you must let me know in advance. We will work together to schedule a time for you to complete, in advance, an exam that is missed because of such an event. Without this notice, no make-ups will be given.

### Academic Honesty

Any breach of standards for academic honesty as defined in the Pacific University catalog will be reported to the Assistant or Associate Dean of the College of Arts & Sciences and will carry a penalty of a grade of "F" for the course and possible additional sanctions that may include suspension or dismissal from the university.

### Learning Support Services (LSS)

Services and accommodations are available to students covered under the

ADA. Any student requesting accommodation must contact Edna K. Gehring, Director of LSS, at X2107. Contact should be at the earliest possible point in time.

### Grades

I use the scale below to determine final course grades. This scale may change at the end of the term. If so, the cutoffs will not raise.

Grade	Percentage
A	[92,100]
A-	[90,92)
B+	[88,90)
B	[82,88)
B-	[80,82)
C+	[78,80)
C	[72,78)
C-	[70,72)
D	[60,70)
F	[0,60)

### Important Dates

Feb 16	Deadline to add a course or to withdraw from a course without "W"
Mar 21-29	Spring break
Apr 13	Last day to withdraw from a course
Apr 22	Senior projects day, no classes. Please attend senior presentations.
May 13	Last day of classes
May 20	8:30-11 am final exam
May 23	Commencement