

MWF  
11:00-11:50  
King 237

Robert (Bob) Bosch  
King 205A 440-935-6090  
rbosch@oberlin.edu

**Office hours:** TuTh 3:30-5:30 and by appointment.

**Required text:** S.S. Epp, *Discrete Mathematics with Applications*, fourth edition. We will cover selected sections of chapters 1-9. Toward the end of the semester, we will study Graph Theory (chapter 10), but we won't use the text.

**Homework:** Homework will be collected at the beginning of class on the day it is due (the day of the week will vary). Generally, each assignment will contain two types of problems: *practice problems*, which will be taken from the text, and *collected, graded problems*, which will be taken from my private stockpile. I encourage you to work with your fellow classmates, but I insist that you write up and submit your own solutions. Copying another student's work (or from solutions handouts from a previous semester) is a violation of the honor code. If you receive help from someone, please acknowledge it. By the way, if you have trouble on a problem, please feel free to come and see me. I'll be glad to help.

**Exams:** There will be an in-class exam, a take-home exam, and a two-hour, comprehensive, in-class final. The in-class exam will be closed-book. It will be held on Friday March 15. The take-home exam and the final will be open-text, open-notes. The take-home will be due during the week of April 22. The final will be held May 16 at 7 pm.

**Grading:** The homework assignments will be worth a total of 25% of the final grade. (I will drop the lowest one.) Each exam will be worth 25%.

**Help:** Please feel free to ask me questions about the course (or anything else). If you find my office hours inconvenient, you are welcome to schedule an appointment (or just drop by).

**Phones:** If your phone rings in class, you must bring food for the next class period.

Date	Subject matter	Readings
2.4	Logic	1.1 and 2.1-2.3
2.11	More logic	3.1-3.4
2.18	Proofs	4.1-4.5
2.25	More Proofs	4.6-4.7
3.4	Induction	5.1-5.5
3.11	Induction and Recursion	5.6-5.9
3.18	Set Theory and Functions	6.1-6.3, 7.1-7.4
⇒ SPRING BREAK ←		
4.1	Relations	8.1-8.3
4.8	Combinatorics	9.1-9.5
4.15	More Combinatorics	9.6-9.7
4.22	Graphs	Handout
4.29	More Graphs	Handout
5.6	Even More Graphs	Handout