Course Description: Symbolic logic, sets and relations, algorithms, mathematical induction, recurrence relations, trees and other graphs. Additional topics chosen from algebraic systems, networks, automata.

Text: Discrete Mathematics: Elementary and Beyond by Lovász, Pelikán and Vesztergombi.


Course Web Page: www.math.hawaii.edu/~jb

Grading: Homework counts 17%, midterms and quizzes 50%, and the final exam is 33%.

Homework: Homework assignments are due on Mondays. You are allowed 4 late assignments; subsequent late assignments will be given half credit. No assignment will be accepted more than 1 week late. You may work together on homework, but avoid straight copying.

Academic Expectations: Cheating on exams will not be tolerated, and will result in failure of the course. We reserve the right to pursue further remedies in aggravated cases.

Learning mathematics requires both study and practice. The instructors cannot learn mathematics for you, we can only guide your efforts. The departmental statement of academic expectations on our web page (www.math.hawaii.edu) applies to all students.

Course Outline: We will cover all of Chapters 1–7 and topics from Chapters 8–15.