

Mathematics 117
Discrete Mathematics
Syllabus

Instructor: Dr. *Kenneth S. Berenhaut*
Office: Manchester 331
Phone: 336-758-5922
Email: berenhks@wfu.edu
<http://www.math.wfu.edu/Faculty/berenhaut.html>

Text: *Discrete Mathematics with Applications*,
3rd ed., 2004. ISBN# 0-534-35945-0.
S.S. Epp

Classes: MTWF 3:00-3:50

Topics: We plan to cover as much of the book as time permits. Particular chapters, the core of which we hope to cover in some detail, include

1. The Logic of Compound Statements
2. The Logic of Quantified Statements
3. Elementary Number Theory and Methods of Proof
4. Sequences and Mathematical Induction
5. Set Theory
6. Counting
7. Functions
8. Recursion
10. Relations
11. Graphs and Trees

Homework policy: Homework will usually be assigned at the completion of each chapter. You may work together and ask questions of me, but you should write solutions up yourself. Under no circumstances may you obtain assistance from others who are not in the class.

Grading (rough estimates):

Homework: 30% - 40%
Final Exam: 30% - 40%
Two in class tests: 30% - 40 %