

# Mathematics 2345 : Computer Science I

## Topics for Exam 3

Fall 2007

The following list of topics may help you in your preparation for the test. Emphasis will be placed on Chapter 5, although some questions will relate to the end of Chapter 3 (sections 3–5) and others to the beginning of Chapter 6 (sections 1–2).

- ( Everything covered in Exams 1 & 2 )
- Section 3.3 Recursive Definitions
- Section 3.4 Recursive Algorithms
- Section 3.5 Program Correctness
- Section 5.1 Recurrence Relations
- Section 5.2 Solving Recurrence Relations (also, Iteration Method)
- Section 5.3 Divide-and-Conquer Relations (Master Method)
- Section 6.1 Relations and Their Properties
- Section 6.2 Representing Relations