

**Math 112 Discrete Mathematics
2016-2017 Spring Semester
Syllabus**

| Week | Date | Topic | RB1 | RB2 |
|------|-------------|---|--------------|----------------|
| 1 | 20 – 24 Feb | Fundamental Principles of Counting | 1.1 | 6.1 |
| 2 | 27 – 03 Mar | Basic tools of counting | 1.2-4 | 6.3-4 |
| 3 | 06 – 10 Mar | Principle of Inclusion-Exclusion | 8.1-3 | 8.5-6 |
| 4 | 13 – 17 Mar | Basic Counting Models | | 6.5-6 |
| 5 | 20 – 24 Mar | | | |
| 6 | 27 – 31 Mar | | | |
| 7 | 03 – 07 Apr | Constant Coefficient Linear Homogeneous Recurrence Relations | 10.1-3 | 8.1-2 |
| 8 | 10 – 14 Apr | | | |
| 9 | 17 – 21 Apr | Pigeonhole Principle | 5.5 | 6.2 |
| 10 | 24 – 28 Apr | Discrete Probability | | 7.1-3 |
| 11 | 01 – 05 May | | | |
| 12 | 08 – 12 May | | | |
| 13 | 15 – 19 May | Graphs | 11.1-7, 12.1 | 10.1-5, 11.1-2 |
| 14 | 22 – 26 May | | | |

Midterm 1: March 31st, 2017 (Friday) 1- 6 35 points

Midterm 2: April 28th, 2017 (Friday) 7- 9 25 points

Final: ? 1- 14 40 points

Make-up for Midterm Exams: May 5th, 2017 (Friday) 1-9

Make-up for Final Exam: ? () 1- 14

Reference Books:

RB1- Discrete and Combinatorial Mathematics, R. P. Grimaldi, 5th Ed. (Download)

RB2- Discrete Mathematics and Its Applications, K. H. Rosen, 7th Ed. (Download)