

Carthage Mathematics Department
Course Summary for MTH 3030 Discrete Structures II

1. Credits: 4 cr.
2. Semesters Offered: Fall
3. Text(s): Instructor Notes
4. Topics Covered:
 - a. Combinatorics
 - b. Recursion
 - c. Algorithms
 - d. Probability
5. Skills Enhanced:
 - a. Quantitative reasoning
 - b. Critical thinking
 - c. Problem solving
 - d. Writing mathematics
6. Sample Syllabus:
 - a. Available from department chair
7. Miscellanea
 - a. None
8. Course Goals: By the end of the course, students should be able to do the following, all of which will be assessed by written projects and papers.
 - a. Solve combinatorial problems
 - b. Reason probabilistically and algorithmically
 - c. Employ recursion to solve problems involving combinatorics and probability Item