

**Instructor:** W Mio

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**Office Hours:** TR 10:30-11:30 am, or by appointment.

**Eligibility.** You must have the course prerequisites listed below. Credit is not allowed for MAD 2104 if you have earned credit for MGF 3301 (Introduction to Advanced Mathematics). It is the student's responsibility to check and prove eligibility.

**Prerequisites:** MAC 1140 (Precalculus Algebra) with a grade of C- or better, or the appropriate transfer/placement credits.

**Text.** *Discrete Mathematics and Its Applications* by Kenneth H. Rosen, McGraw Hill, 6th edition.

**Course Content.** Selected topics from chapters 1, 2, 3, 4, 5.

**Course Objectives.** The purpose of this course is to introduce students to the study of discrete structures in mathematics and help the students to develop the ability to think abstractly and to structure logical arguments in the form of mathematical proofs. Topics covered will include basic elements of logic and set theory, induction and recursion, and counting techniques.

**Grading.** There will be three unit tests and several short quizzes. Your work will be weighted as follows: tests - 25% each; cumulative quizzes - 25%. Letter grades will be based on numerical grades in the usual way. (A: 90-100; B: 80-89; C: 70-79; D: 60-69, with +/- grades assigned at the discretion of the instructor.) A grade of I will not be given to avoid a D or an F, or to provide additional study time. Failure to process a course drop will result in a course grade of F.

**Exam Policy.** Makeup tests may be given if the student presents sufficient, documented evidence of extenuating circumstances. Absences from tests due to family or other social events will not be excused. If a quiz absence is excused, the grade of the first subsequent unit test will be used in its place.

**Honor Code.** The Academic Honor System at The Florida State University is based on the premise that each student has the responsibility 1) to uphold the highest standards of academic integrity in the student's own work, 2) to refuse to tolerate violations of academic integrity in the University community, and 3) to foster a high sense of integrity and social responsibility on the part of the University community. A copy of the University Academic Honor Code can be found in the current Student Handbook and you are bound by it in all your academic work.

**American Disabilities Act.** Students with disabilities needing academic accommodations should register with and provide documentation to the Student Disability Resource Center (SDRC), and bring a letter from the SDRC to the instructor indicating their needs. This should be done within the first week of classes.

**Test 1:** Friday, May 20

**Test 2:** Friday, June 3

**Test 3:** Friday, June 17