

**Math 161 Fall 00**

Section 1, B hour

208 Palmer

**Professor:** Andrew Diener  
**PHONE:** 843-3722  
**Home Page:** <http://www.mathcs.rhodes.edu/~diener>  
**E-MAIL ADDRESS:** diener@rhodes.edu  
**OFFICE:** 316 Ohlendorf  
**OFFICE HOURS:** 1-3pm MW, 3-5pm TuTh.

**TEXT:** *Discrete and Combinatorial Mathematics, 4th edition* by Grimaldi.

**COURSE CONTENT:** Discrete math is the study of objects or values which are “separated” from one another. (For example, the set of real numbers is not “discrete” while the set of integers is “discrete.”) We will study sets, logic, counting methods, relations, graphs, functions and possibly codes.

Additionally, we will use this course to introduce some of the concepts in higher mathematics. Here, we will study some of the methods involved in proving mathematical concepts. We will not be proving difficult things, but studying **how** one proves (or disproves) a mathematical concept.

**HOMEWORK:** A list of suggested homework problems will be given for each section covered in class. I will spend the first 5–10 minutes of each class answering questions about the previous class day’s homework. However, the homework problems will not be graded. The homework portion of your grade will come from quizzes and projects.

**QUIZZES:** There will be quizzes once or twice per week. These quizzes will be very short (approx. 10 min.) and will come almost directly from the homework. Each quiz will be worth 10 points and I will count 10 of them. Since I plan to give many of these quizzes I will drop the extra ones. This does mean that quizzes cannot be made up.

**TESTS:** There will be three in-class exams, each exam worth 100 points, and a comprehensive final exam worth 100 points. **I will not curve your test grades.** If you miss a test for any reason, you need to notify me **no later** than the day after the test to set up a time for a make-up.

**PROJECTS:** I strongly encourage students to work together when studying mathematics (except on exams!) and to further this goal there will be several group projects during the course of the semester. These projects will be discussed at the time they are assigned.

**ATTENDANCE:** Attendance is the responsibility of the student. I will not take roll. However, quizzes cannot be made up, and exams will be made up only in the case of an excellent excuse.

**GRADING:** 100-90%=A, 90-80%=B, 80-70%=C, 70-60%=D, 60% and below is an F.

**SCHOLASTIC DISHONESTY WILL NOT BE TOLERATED!** I expect students in this class to abide, fully and completely, with the Rhodes Honor Code. All work is to be completed with the honesty and integrity demanded by this code. If you have any specific questions as to what is or is not allowed on a particular assignment feel free to ask questions.