

**CS5333.501**  
(CRN 10592)  
**Discrete Structures**  
**Spring 2006**

**Instructor:** Nancy Van Ness

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**Time and Location:** MW 2 p.m.- 3:15 p.m., ECSS 2.306

**Office Hours**

Mon/Wed 7:00 p.m. - 8:00 p.m. in ECSS 4.706

Tues 9:30 a.m.. -10:30 a.m. in ECSS 4.706

Mon/Wed 10:00 am - 1:00 p.m. in advising office (ECSS 2.602)

or  
by appointment

**Textbook:** *Discrete Mathematics and Its Applications, 5th ed., Kenneth H. Rosen*

**Catalogue Description: CS 5333 Discrete Structures (3 semester hours)**

Mathematical foundations of computer science. Logic, sets, relations, graphs and algebraic structures. Combinatorics and metrics for performance evaluation of algorithms. (3-0) S

This course covers a large amount of material and is quite fast paced. Homework will be assigned almost every class. Check WebCT for any changes in the assignment. Hints and answers for the homework and the lecture slides are available there as well.

**Grading:** The grade in this course will consist of two mid terms, a final, quizzes and homework assignments..

Assignments	10%	see current assignment sheet
Midterm 1	20%	Wednesday, February 1
Mid term 2	20%.	Wednesday, March 15
Quizzes	20%	See current assignment sheet
Final	30%	Monday, May 1 2:00 p.m.

**Grading Policies:** As the number of quizzes and homework assignments is large, 1/3 of these will be dropped. Plan accordingly as late homework is not accepted (once answers have been posted) and no makeups are given for the missed quizzes.

**Important dates :** Last day to drop without a “W” January 17  
Graduate last day to drop with  
Automatic “W” March 24  
Spring Break March 6 – March 11

### **Course Details:**

Great emphasis is placed on the basic understanding of logic, proofs and counting in various mathematical contexts as well as fundamental concepts which will be expanded upon in later courses. The student will be encouraged to understand structure and not memorization and mimicking of previously solved problems. Connections and similarities of concepts in different contexts will be stressed. Applying learned ideas in new situations will be emphasized. In the process, it is hoped that the student will begin to learn how to learn, a technique absolutely essential in the fast-changing technological world of today.

Homework is absolutely essential in the understanding of the concepts. While a lot will be assigned, not all needs to be turned in. Feedback will be given quickly. Not only answers but also hints will be posted on WebCT. Every week there will be a quiz over the material covered. At that time, students will be allowed to work in groups, use their books and ask questions as the problems will be new and not necessarily simple but built on the understanding of the homework and lectures for that week. Exams will be closed book with permission given for bringing in two sheets (front and back) to the Mid Terms and 4 sheets to the Final of prepared information. Seating during exams will be randomized and identification will be required. Programmable calculators will not be allowed.

**Cheating:** Cheating will not be tolerated.

Those suspected of cheating will be referred to the university's policy on Scholastic Dishonesty.

The following is a statement taken from UTD's website regarding this.

All episodes of suspected scholastic dishonesty will be reported according to University policy. Students who violate University rules on scholastic dishonesty are subject to disciplinary penalties, including the possibility of failure in the course and/or dismissal from the University. Since such dishonesty harms the individual, all students and the University, policies on scholastic dishonesty will be strictly enforced. Penalties that may be assessed for scholastic dishonesty may be reviewed in Subchapter D. Penalties at <http://www.utdallas.edu/student/slife/chapter49.html>.

**Cell phones:**

Students are expected to treat other students with respect. All cell phones should be turned off during class and will not be allowed during exams.