Course #: MATH 2300 (CRN 13993)
Course Title: Discrete Mathematics
Credit Hrs: 3
Term: Fall 2009
Course Meetings & Location: MWF 11:30-12:20 LART 211
Prerequisite Courses: MATH 1411
Course Fee: (if applicable) None
Instructor: Joe Guthrie
Office Location: Bell Hall 300
Contact Info: Phone # 747-6755
E-mail address jguthrie@utep.edu
Fax # 747-6502
Emergency Contact 747-5761
Office Hours: Monday, Wednesday 10:30 – 11:20, 12:30- 1:20, and by appointment.


**Course Objectives** (Learning Outcomes):

1. Students will be able to use the basic algebra of sets and of logic.
2. Students will be able to identify and use common classes of relations (reflexive, symmetric, transitive, antisymmetric; equivalence relations and partial orders).
3. Students will be able to carry out basic computations in modular arithmetic.
4. Students will be able to solve counting problems involving combinations and permutations, including counting problems with restrictions, and they will be able to use these skills to compute discrete probability.
5. Students will know the basic definitions and theorems (such as Euler's theorem) of graph theory, and be able to apply them to specific graphs.
6. Students will know the basic algorithms for traversing trees, and be able to apply them to specific trees.
7. Students will be able to use induction to prove simple summations and inequalities

**Course Activities/Assignments:**

Homework: Homework will be assigned each class day and discussed at the next class meeting.
Assessment of Course Objectives:

Quizzes: Weekly quizzes will be given over the current homework assignments. There will be no make up of missed quizzes, but the lowest two quiz scores will be dropped.

Exams: There will be three mid-term in class exam as well as a final exam.

Course Schedule:
The last day to drop with an automatic W is Friday October 30. The final exam will cover the entire course and will be held Wednesday, December 9 from 1:00 – 3:45.

Grading Policy:
At the end of the semester, you will have percentage scores for your quizzes and for your mid-term and final exams. The quizzes will count 10%, each mid-term exam will count 20% and the final exam will count 30% toward your course average. Grades will then be assigned according to:

A: 90-100%     B: 80-89%     C: 70-79%     D:60-769%     F: 0-59%.

If you have problems with the course material, need to be absent for an exam, or have any other circumstances that may affect your performance in the course, contact me by phone or email as soon as possible.

Make-up Policy:
Makeup exams will be given only in extraordinary and unavoidable circumstances and with advance notice to me by phone or email.

Attendance Policy:
Prompt attendance at all class meetings is expected.

Academic Integrity Policy:
You are expected to conform to the UTEP policy on integrity. See http://academics.utep.edu/Default.aspx?tabid=23785.

Civility Statement:
You are expected to devote class time entirely to the task at hand and not engage in other activities such as talking, using cell phones, or working on assignments for other courses.

Disability Statement:
If you have or suspect you have a disability and need an accommodation, you should contact the Disabled Student Services Office (DSSO) at 747-5148 or at <dss@utep.edu> or go to Room 106 Union East Building. You are responsible for presenting to me any DSS accommodation letters and instructions.

Military Statement:
If you are a student with the potential of being called to military service or training during the semester, please let me know during the first week of classes and then contact me as soon as possible if you do receive such an assignment.