THE UNIVERSITY OF TEXAS AT EL PASO  
COLLEGE OF SCIENCE  
DEPARTMENT OF MATHEMATICS

Course Number: 2300  
Course Title: Discrete Math  
Credit Hours: 3  
Term: Summer-II 2015  
Course Meeting Time: MTWTHF 2:00-4:10 in Quinn Hall 103  
Prerequisite Courses: Math 1411  
Instructor: Dr. Kanadpriya Basu  
Office Location: Bell Hall 130E  
Contact Info: Phone: 747-7794  
E-mail: kbasu@utep.edu  
Office Hours: MTWTh 12:00-1:30 or by prior appointment


Course Objectives: Upon successful completion of the course, you will know and be able to use the basic algebra of sets and of logic. You will be able to identify and use common classes of relations. You will know basic properties of arbitrary functions. You will be able to solve counting problems involving combinations and permutations, including counting problems with restrictions. You will know the basic definitions and theorems of graph theory, and be able to apply them to specific graphs. You will know the basic algorithms for traversing trees, and be able to apply them to specific trees.

Assignments: There will be an in-class assignment every class period, which you are to work on during class time. You are encouraged to work in groups on these assignments. You don’t need to turn these in; they are for your own benefit. In addition, homework assignments will be given at the start of each new chapter. There will be a quiz once or twice a week that will be either taken directly from the homework assignments or very similar to them. You may not use your book during the quizzes, but you may use your homework, so it is definitely to your advantage to attempt all the problems on the homework assignments on your own. The lowest two quiz scores will be dropped.

Assessment: Your overall grade will consist of the weighted average of your scores on the exams, homework quizzes, and the final exam. If it benefits you, the score you receive on the final exam will replace your lowest exam score.

Grading Policy: The usual grading scale will be used for this course (90%-100% is an A, 80%-89% is a B, etc.)

<table>
<thead>
<tr>
<th>Component</th>
<th>Percentage</th>
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<tbody>
<tr>
<td>Three exams</td>
<td>45% (15% each)</td>
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<tr>
<td>Homework</td>
<td>20%</td>
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<tr>
<td>Quizzes</td>
<td>15%</td>
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<tr>
<td>Comprehensive final exam*</td>
<td>20%</td>
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<tr>
<td>Total</td>
<td>100%</td>
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* The final exam will be given on Tuesday, August 4th 4:00-6:45 pm.
Make-up Policy: Make-up quizzes will not be given under any circumstances; however, the lowest one quiz scores will be dropped. A make-up exam will only be given in extraordinary circumstances (severe illness, death in immediate family), and with appropriate documentation (e.g. doctor’s note).

Attendance Policy: As with every college course, attendance is essential for success. Try not to be absent unless it is absolutely necessary. If possible, it is better to let me know ahead of time when you will be absent. If you are absent, it is your responsibility to find out which assignments you need to make up.

Academic Integrity: We will follow the university’s policy in this course. You may find it at http://academics.utep.edu/Default.aspx?tabid=23785.

Civility: Please do not use cell phones, pagers, IPods, MP3 players, blue tooth devices, etc. during class. Cell phones and pagers should be set to silent or vibrate, and if you absolutely must answer your phone, calls should be taken outside of class. Please do not wear headsets or blue tooth devices during class. Please do not send text messages during class.

Disability Statement: If you have or suspect a disability and need accommodations you should contact Disabled Student Services Office (DSSO) at 747-5148 or at dss@utep.edu or go to Room 106 Union East Building.

Military Statement: If you are a military student with the potential of being called to military service and/or training during the course of the semester, you are encouraged to contact me as soon as possible.

Course Schedule: We will cover parts of chapters 2, 4, 5, 8, and appendix A. The textbook is required at all class meetings.


N.B. The syllabus is tentative and subject to change at any point of time.