THE UNIVERSITY OF TEXAS AT EL PASO
COLLEGE OF SCIENCE
DEPARTMENT OF MATHEMATICAL SCIENCES

Course # M2300 (CRN 16363)
Course Title Discrete Mathematics
Credit Hrs 3
Term Fall 2020
Course Meetings & Location Online course via Blackboard Collaborate
Prerequisite Courses Calculus I (Math 1411). This is entirely a mathematical maturity require-
ment, as we will use no calculus in this course.

Instructor Omeiza Olumoye
Contact Information E-mail okolumoye@utep.edu
Website http://utminers.utep.edu/okolumoye/teaching/
fall2020/math2300.html
Emergency Contact Math Department mathdept@utep.edu

Visual Office Hours 9:30 – 10:30 AM (Mondays, Wednesdays), or by appointment via Black-
board Collaborate.

Textbook Discrete Mathematics, 5th ed., Dossey, et. al., Chapters 2, 4, 5, 8, Ap-
pendix A. We will skip some sections, as announced in class. The textbook is required at all class meetings.
Warning: Sometimes, we will not “cover” all the material from a section, but instead focus on a particular aspect of the section. In such cases, I will point out in class which other parts of the section I expect you to read on your own.

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.

Warning Calculators with access to the internet are not allowed.

Grading Policy Your grade will be calculated as follows:

- Quizzes 16%
- Exam 1 16%
- Exam 2 16%
- Exam 3 16%
- Comprehensive Final 36%
Quizzes Suggested homework problems will be assigned most class
days and will generally be discussed during office hours.
There will be approximately weekly quizzes, with
problems similar to the ones in the homework. Quizzes are
closed-book, closed-notes. Missed quizzes cannot be made
up, but your two lowest quiz scores will be dropped.

Exams There will be three online exams scheduled tentatively on
the following days:

<table>
<thead>
<tr>
<th>Chapter</th>
<th>Date</th>
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<tbody>
<tr>
<td>Ch. 2</td>
<td>Thu. 24 Sep.</td>
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<td>Ch. 8</td>
<td>Thu. 22 Oct.</td>
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<td>Ch. 4, 5</td>
<td>Tue. 24 Nov.</td>
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Final The final will be comprehensive and is scheduled for
December 10, 2020 at 12 PM.

The grading scale for this course is: 90% and above is an A, 80% - 89%
is a B, 70% - 79% is a C, 60% - 69% is a D, and 0% - 59% is an F.

The Drop Date for this semester is Thursday, December 3. No
drops will be approved after this date.

No makeup exams will be allowed except with proper documentation, i.e.
doctor’s note, hospital’s note, or UTEP excused absence document.

Disability Statement If you have disability and need classroom accommodations, please contact
The Center for Accommodations and Support Services (CASS) at 747-
5148, or by email to cass@utep.edu, or visit their office located in UTEP
Union East, Room 106. The student is responsible for presenting to the
instructor any CASS accommodation letters and instructions.

Academic Integrity Policy It is UTEP’s policy, and mine, for all suspected cases or acts of alleged
scholastic dishonesty to be referred to the Office of Student Conduct and
Conflict Resolution for investigation and appropriate disposition. See
Section II.1.2.2.1 of the Handbook of Operating Procedures.
Each student is responsible for notice of and compliance with the provi-
sions of the Regents’ Rules and Regulations, which are available for inspec-

Exceptional Circumstances If you anticipate the you are going to miss a large portions of class time
during the semester, due to exceptional circumstances such as childbirth,
or military service as a military student with the potential of being called
to military service and/or training, please let me know as soon as possible.