Course Syllabus Fall 2022

CS 2305.002 Discrete Mathematics for Computing I

Instructor: **Grader:**

Simeon Ntafos
ECSS 4.403
972-883-2809
ntafos@utdallas.edu
Office Hours: 2:45 – 3:45pm MW + by appointment

Course Description (Catalog):

CS 2305 (MATH 2305)
Discrete Mathematics for Computing I (3 semester credit hours)

Principles of counting. Boolean operations. Logic and proof methods. Recurrence relations. Sets, relations, functions. Elementary graph theory. Elementary number theory. Prerequisite: Score of at least 75% in ALEKS or MATH 2312 with a grade of C or
better. (Same as CE 2305) (3-0) S

Course Objectives

Upon completion of this course, students will have:

(a) Ability to use and apply basic logic

(b) Ability to use and apply basic definitions and properties of sets, functions, relations.

(c) Ability to understand what an algorithm is, algorithmic complexity;

(d) Ability to understand and construct proofs including proofs by induction;

(e) Ability to use basic counting techniques

(f) Ability to understand and use basic number theory

(g) Ability to understand and use basic graph theory.

Course Information - Textbook:

"Discrete Mathematics and its Applications" with MGH Connect.
Kenneth H. Rosen, 8thed., McGraw Hill.
MGH Connect is required (Homework will be mostly from MGH Connect)

Material to be covered:

Chapters 1, 2.1-2.3, 3.1-3.2, 4.1-4.2, 5.1-5.2, 6.1-6.3, 7.1, 9.1-9.3, 10.1-10.5, 11.1-11.3

Important Dates:

Last Day to Drop without W:	September 7, 2022
Last Day to Drop (W):	October 3, 2022
Last Day to Drop Late (WL):	November 8, 2022
Last Day of Classes	December 8, 2022
Exam 1	October 12, 2022
Exam 2	December 7, 2022

University Closings:

Labor Day	September 5, 2022
Fall Break/Thanksgiving	November 21-27, 2022

Grading Policy

Attendance	10%
Homework	30%
2 exams	30% each

Grading Scale:

0-59	F				
60-62	D-	63-66	D	67-69	D+
70-72	C-	73-76	C	77-79	C+
80-82	B-	83-86	B	87-89	B+
90-92	A-	93-96	A	97-100	A+