Course Syllabus

(The information in this Syllabus is subject to change)

Course	CE/CS 2305.004 (MERGED)
Course Title	Discrete Mathematics for Computing I – S24
Professor	Wei-Pang Chin
Term	Spring 2024
Meetings	Monday/Wednesday 11:30am - 12:45pm (Room FN 2.102)

Professor's Contact Information

Office Phone	(972) 883-4201
Other Phone	
Office Location	ECSS 3.212
Email Address	wei-pang.chin@utdallas.edu
Office Hours	1:30pm – 2:00pm Monday/Wednesday or by appointment
Grader Information	N/A

Course Modality and Expectations

Instructional Mode	Traditional Classroom/Laboratory. Tests will be held at the UTD Testing Center
Course Platform	**MGH's Connect is required.**
Expectations	**Be honest, responsible, and do your best.**
Asynchronous Learning Guidelines	N/A

General Course Information

Pre-requisites, Co-requisites, & other restrictions	ALEKS score required or MATH 2413 (Differential Calculus) or MATH 2417 (Calculus I) with a grade of C or better for all students
Course Description	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.
Learning Outcomes	Upon completion of this course, students will have: 1. Ability to use and apply basic definitions and properties of logic 2. Ability to recognize and construct valid proofs including proofs by induction 3. Ability to understand what an algorithm is, use algorithms, use Big-O notation and algorithmic complexity 4. Ability to use basic counting techniques 5. Ability to use and apply basic definitions and properties of sets, relations, functions 6. Ability to understand and apply elementary number theory 7. Ability to understand and apply graph theory
Required Textbooks & Materials	"Discrete Mathematics and its Applications", **Eighth Edition**, Kenneth H. Rosen, McGraw Hill **with Connect**.
Materials 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

Required Textbooks and Materials

We'll be using Rosen's Discrete Mathematics and Its Applications **8th Edition** with **Connect**. See below for purchasing information.
Note that you must purchase Connect and it comes with an eBook.
Here are the directions for associating Connect with eLearning Blackboard (You must access your homework assignments through eLearning Blackboard during the semester):

STUDENT REGISTRATION FOR CONNECT THROUGH BLACKBOARD

- Sign into your school's eLearning.
- Go to your instructor's course.
- Go to the "Tools" or "Course Tools" menu.
- Click on the "McGraw-Hill Higher Education" link.
- Below "McGraw-Hill Connect", click **Go to My Connect Section**.
- Follow the on-screen instructions.

A BRIEF DESCRIPTION OF CONNECT

Welcome! In this course we will use Discrete Mathematics and Its Applications, Kenneth H. Rosen, McGraw Hill, 8th edition. You will need the textbook to be successful completing your assignments for this course. You can choose to rent or purchase the text materials in a digital or print format.

Here is your **REQUIRED** course material:

TITLE	EDITION	AUTHOR	PUBLISHER	ISBN
Discrete Mathematics and Its Applications	8th edition	Kenneth H. Rosen	McGraw-Hill Education	The Looseleaf and Connect Access Card ISBN is 9781264143931 that is available in the bookstore

What is Connect?

Connect is an online homework and learning management platform from McGraw-Hill Education. Many of your course assignments will be delivered through Connect.

Connect helps you:

- Stay Organized with assignments – both in and outside of class
- Target difficult material to practice and improve your skills
- Review for exams with self-assessment tests and quizzes
- Track your performance with personalized reports
- Save time on studying
- Save money on textbooks

Course slides will also be available on your school's eLearning.

STUDENT PURCHASE & REGISTRATION INFORMATION

For this course, you will purchase access to McGraw-Hill Education's Connect rather than buying a textbook. Here's how:

OPTION 1

Purchase from Connect integrated in eLearning/Blackboard:

Purchase Connect access through your eLearning/Blackboard account. Login to your school's eLearning/Blackboard account, click on your course, and then **click on your 1st assignment**, which will take you to the Connect registration page where you can follow the prompts.

At that time, you will need to do one of the following:

- Enter your access code
- Purchase access online
- Begin your 14-day Courtesy Access period

Please note: After you register, you will have the option to purchase a low-cost print-version of the text through Connect. This is optional. If you choose to purchase a copy, a full-color, loose-leaf version will be shipped to you.

It is essential that you use the same username and password when you login to the ReadAnywhere app so you have full access to your account.

OPTION 2

Purchase from the bookstore:

Purchase a Connect code at the bookstore (either standalone or packaged with a textbook) and register with the provided link. During the registration process, you will be prompted to create a new account or login with an existing Connect account, username, and password.

At that time, you will need to do one of the following:

- Enter your access code
- Purchase access online
- Begin your 14-day Courtesy Access period

Please note: After you register, you will have the option to purchase a low-cost print-version of the text through Connect. This is optional. If you choose to purchase a copy, a full-color, loose-leaf version will be shipped to you.

TECHNICAL AND SUPPORT INFORMATION

If you are having trouble registering for or accessing Connect, please contact McGraw-Hill Education's Customer Support. Live chat, email, and phone support are available 7 days a week.

Website: www.mhhe.com/support | Phone: (800) 331-5094 **Hours (EST)**
Sunday: 12 PM - 12 AM
Monday - Thursday: 24 hours
Friday: 12 AM - 9 PM Saturday: 10 AM - 8 PM

Ensure your computer meets system requirements by going to this link:
http://connect.mheducation.com/connect/troubleshoot.do

Important Dates:

End of late registration and last day to add/swap	Jan. 23
Last Day to Drop without a "W":	Jan. 31
Withdrawal period ends:	Apr. 30
Last Day of Class:	May 3

Exam 1 (Midterm @UTD Testing Center)	**10:00 am - 7:00pm Monday, March 4**
Exam 2 (Final @UTD Testing Center)	**10:00 am - 7:00pm Wednesday, May 8**

The UTD Testing Center has a very limited space and is on a first-come, first-served basis. You also have to successfully complete your test registrations 48 hours prior to the tests. You should receive a receipt or acknowledgement for each of your test registrations.

University Closings:

Martin Luther King Day	Jan 15
Spring break	March 11-17

Grading Policy

The final grade will be composed as follows:

Attendance	5%
SmartBook	10%
Homework	25%
2 Exams	60% in total

Letter grades will be assigned as follows:

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

Assignments & Academic Calendar

To be advised

Week Number OR Range of Dates for week	The class will be paced to cover materials mentioned above and **is subject to changes**.
1	Overview and Chapter 1
2	Chapter 1
3	Chapter 1
4	Chapter 2
5	Chapter 2 & 3
6	Chapter 3
7	Chapter 4
8	**Exam 1** and Chapter 5
9	Chapter 5 & 6
10	Chapter 6
11	Chapter 7 & 9
12	Chapter 9 & 10 (Self Read Some Chapter 10 Sections)
13	Chapter 10
14	Chapter 11
15	**Exam 2**

Course Policies

Grading (credit) Criteria	See above
Make-up Exams	Make-up examinations will be administered **only for well-documented emergencies**. A student must make every attempt possible, via telephone and email, to notify the instructor that he/she will miss a scheduled quiz or exam. This must be done prior to the scheduled date and time if possible. See the **UT Dallas Syllabus Policies and Procedures section** below for the policy regarding religious holy days.
Extra Credit	NA
Late Work	**Late assignments will NOT be accepted.** Assignments are due by the date and time indicated in the write-up, eLearning assignments or syllabus.
Special Assignments	NA
Class Attendance	5% of your final grade.
Classroom Citizenship	Mutual respect. Disruptive behavior is not tolerated.
Comet Creed	*This creed was voted on by the UT Dallas student body in 2014. It is a standard that Comets choose to live by and encourage others to do the same:* ***"As a Comet, I pledge honesty, integrity, and service in all that I do."***
Academic Support Resources	*The information contained in the following link lists the University's academic support resources for all students.* *Please go to http://go.utdallas.edu/academic-support-resources.*
UT Dallas Syllabus Policies and Procedures	*The information contained in the following link constitutes the University's policies and procedures segment of the course syllabus.* *Please go to http://go.utdallas.edu/syllabus-policies for these policies.*

COVID-19 Guidelines and Resources

The information contained in the link lists the University's COVID-19 resources for students and instructors of record.

Please see http://go.utdallas.edu/syllabus-policies

The descriptions and timelines contained in this syllabus are subject to change at the discretion of the Professor.