

Course Syllabus

(The information in this Syllabus is subject to change.)



Course CE/CS 2305.005 (MERGED)
Course Title Discrete Mathematics for Computing I – F23
Professor Wei-Pang Chin
Term Fall 2023
Meetings Monday/Wednesday 2:30 pm - 3:45 am
(Room ECSS 2.412)

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 1:30 pm – 2:00 pm Monday/Wednesday or by appointment

Grader Information N/A
Email Address N/A

Course Modality and Expectations

Instructional Mode	Traditional Classroom/Laboratory. Tests will be held at the UTD Testing Center
Course Platform	<u>MGH's Connect is required.</u> (See below)
Expectations	Attend class, be honest, responsible, and do your best.
Asynchronous Learning Guidelines	N/A

General Course Information

Pre-requisites, Co-requisites, & other restrictions

Prerequisite: Score of at least 75% in ALEKS or [MATH 2312](#) with a grade of C or better. (Same as [CE 2305](#) and [TE 2305](#)) (3-0) S

[CS 2305 \(MATH 2305\)](#) Discrete Mathematics for Computing I (3 semester credit hours)

Course Description

Principles of counting. Boolean operations. Logic and proof methods. Recurrence relations. Sets, relations, functions. Elementary graph theory. Elementary number theory.

Upon completion of this course, students will have:

Learning Outcomes

- (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.

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.

Access to your first homework will also lead you to the purchase and registration of Connect.

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 in MS PowerPoint 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:

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.

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	Friday, Aug. 18 – Monday, Aug. 28
Last Day to Drop without a “W”:	Wednesday, September 6
Withdrawal period ends:	Tuesday, November 7
Last Day of Class:	Thursday, December 7
Exam 1 (Midterm @UTD Test Center)	10:00am - 5:00pm Monday, Oct. 9
Exam 2 (Final @UTD Test Center)	10:00am - 5:00pm Monday, Dec. 11
Note: Register your test section 2305.005 or you will not be admitted to the exams	

University Closings:

Labor Day	September 4
Fall break	November 20-22
Thanksgiving holidays	November 23-26
Winter break	Dec. 25, 2023 – Jan. 1, 2024

Grading Policy

The final grade will be composed as follows:

Attendance	5%
SmartBook Homework (Always access them through eLearning)	10%
Sectional Homework (Always access them through eLearning)	25%
1st Exam (15 sections)	30%
2nd Exam (Remaining materials to be covered)	30%

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 (May Need to 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. 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. Always access your homework through eLearning.
Special Assignments	NA
Class Attendance	5% of your final grade. Studies revealed that there is a positive significant relationship between class attendance of students and their academic achievement.
Classroom Citizenship	Students are expected to be respectful to each other and to the course instructor and guest speakers. Disruptive behavior in the virtual class is not tolerated.
Comet Creed	<i>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:</i> <i>"As a Comet, I pledge honesty, integrity, and service in all that I do."</i>
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

CSMC

The Computer Science Mentoring Center (CSMC) is a free resource available to all students taking this class. The CSMC provides assistance in many areas including:

- Understanding core concepts related to this class
- Developing a logical framework for a program
- Connecting programming constructs to the logic of the program
- Assisting in solving syntax and logical errors in your code

- Exam reviews and reworks (by faculty request)

The mentors will meet with you 1-on-1 to address your specific problem areas. Their goal is to help you understand what is wrong and how to fix it, but they will not do the work for you. For more information about the CSMC, including location and hours of operation, please visit <http://csmc.utdallas.edu>

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>

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