

Course Syllabus

(Due to Covid-19, the information in this Syllabus is subject to change.)



Course **CE/CS 2305.004 (MERGED)**
Course Title Discrete Mathematics for Computing I - S21
Professor Wei-Pang Chin
Term Spring 2021
Meetings **OnLine Class Recording will be provided by each Monday & Wednesday**

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 8:00pm-9:30pm Monday/Wednesday by MS Teams (or Blackboard Collaborate – TBA). Links will be provided.
Other Information TBA

Course Modality and Expectations

Instructional Mode	OnLine Learning (Modality 5). <u>MGH's Connect is required. Webcam are required.</u> See instructional mode for the course by referencing to this page for the description: https://www.utdallas.edu/fall-2020/fall-2020-registration-information/
Course Platform	This course will be delivered by MS Teams. Links will be provided.
Expectations	Be honest, responsible and do your best.
Asynchronous Learning Guidelines	No special notice is necessary from students because I do not keep track of your synchronous or asynchronous course timing. However, your assignments or tests have to meet the specified due dates or deadlines. See web link at: https://www.utdallas.edu/fall-2020/asynchronous-access-for-fall-2020/

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>

Classroom Conduct Requirements Related to COVID-19

UT Dallas requires that all students must wear a face covering that covers the nose and mouth in all university buildings and classrooms. To help protect the health and safety of students, instructors, and the University community, students who choose not to wear a face covering may not attend class in person but may attend a course remotely. Anyone attending class in person without a face covering will be asked to put one on or leave. Instructors may end the class if anyone present refuses to appropriately wear a face covering for the duration of class. Students should also be sure they are at least six feet away from their fellow students and faculty, and seated in a seat that is designated to ensure that distance. Students who either refuse to wear face coverings appropriately or to adhere to other social distancing protocols may face disciplinary action for [Student Code of Conduct](#) violations. Students who are unable to comply with the university policies including wearing a face covering should consult the [Comets United](#) webpage for further instructions.

Students who have tested positive for COVID-19 or may have been exposed should not attend class in person and should instead follow required disclosure notifications as posted on the university's website (see "[What should I do if I become sick?](#)" webpage)

Class Attendance

The University's attendance policy requirement is that individual faculty set their course attendance requirements. Regular and punctual class attendance is expected regardless of modality. Students who fail to attend class regularly are inviting scholastic difficulty. In some courses, instructors may have special attendance requirements; these should be made known to students during the first week of classes. These attendance requirements will not be used as part of grading (see Class Participation below for grading information).

In-person participation records may be used to assist the University or local public health authorities in performing COVID-19 occurrence monitoring. Please note – in-person attendance requires consistently adhering to University requirements, including wearing a face covering and other public safety requirements related to COVID-19, as presented in this syllabus. Failure to

comply with these University requirements is a violation of the [Student Code of Conduct](#).

Class Participation

Regular class participation is expected regardless of course modality. Students who fail to participate in class regularly are inviting scholastic difficulty. A portion of the grade for this course is directly tied to your participation in this class. It also includes engaging in group or other activities during class that solicit your feedback on homework assignments, readings, or materials covered in the lectures (and/or labs). Class participation is documented by faculty. Successful participation is defined as consistently adhering to University requirements, as presented in this syllabus. Failure to comply with these University requirements is a violation of the [Student Code of Conduct](#).

Class Recordings

Students are expected to follow appropriate University policies and maintain the security of passwords used to access recorded lectures. Unless the Office of Student AccessAbility has approved the student to record the instruction, students are expressly prohibited from recording any part of this course. Recordings may not be published, reproduced, or shared with those not in the class, or uploaded to other online environments except to implement an approved Office of Student AccessAbility accommodation. Failure to comply with these University requirements is a violation of the [Student Code of Conduct](#).

NOTE: if the instructor records any part of the course, then the instructor will need to use the following syllabus statement:

The instructor may record meetings of this course. Any recordings will be available to all students registered for this class as they are intended to supplement the classroom experience. Students are expected to follow appropriate University policies and maintain the security of passwords used to access recorded lectures. Unless the Office of Student AccessAbility has approved the student to record the instruction, students are expressly prohibited from recording any part of this course. Recordings may not be published, reproduced, or shared with those not in the class, or uploaded to other online environments except to implement an approved Office of Student AccessAbility accommodation. If the instructor or a UTD school/department/office plans any other uses for the recordings, consent of the students identifiable in the recordings is required prior to such use unless an exception is allowed by law. Failure to comply with these University requirements is a violation of the [Student Code of Conduct](#).

Class Materials

The instructor may provide class materials that will be made available to all students registered for this class as they are intended to supplement the classroom experience. These materials may be downloaded during the course, however, these materials are for registered students' use only. Classroom materials may not be reproduced or shared with those not in class, or uploaded to other online environments except to implement an approved Office of Student Accessibility accommodation. Failure to comply with these University requirements is a violation of the [Student Code of Conduct](#).

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

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.

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 have Connect**. Here are the directions for associating Connect with eLearning:

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:

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 the Connect link, 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:

Classes Begin January 19, 2021

Last Day of Class: May 8, 2021

Exam 1 (Webcam required)

March 10, 2021

Exam 2 (Webcam required)

May 12, 2021

University Closings:

Martin Luther King Day

January 18, 2020

Grading Policy

The final grade will be composed as follows:

LearnSmart/SmartBook	10%
Homework	30%
2 Exams	30% each

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
13	Chapter 10
14	Chapter 10
15	Chapter 11
16	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	NA
Classroom Citizenship	Even in the remote virtual setup, students are expected to be respectful to each other and to the course instructor. 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	<i>The information contained in the following link lists the University’s academic support resources for all students.</i> <i>Please go to http://go.utdallas.edu/academic-support-resources.</i>
UT Dallas Syllabus Policies and Procedures	<i>The information contained in the following link constitutes the University’s policies and procedures segment of the course syllabus.</i> <i>Please go to http://go.utdallas.edu/syllabus-policies for these policies.</i>

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