Course Information

CE/CS 2305.003/501 Discrete Mathematics for Computing I Fall 2020

Professor Contact Information

Professor: Dr. James Willson Email Address: jkw053000@utdallas.edu Online Office Hours: Drop-in office hours Wednesday noon-2 on Microsoft Teams, and by appointment

Course Modality and Expectations

The instructional mode is Remote (https://www.utdallas.edu/fall-2020/fall-2020-registrationinformation/). Lectures will be held through Blackboard Collaborate, which can be accessed from the course eleasrning page. Students are expected to attend lecture and complete weekly homework assignments. Students who elect to complete the course asynchronously can access recordings of the lectures on the course elearning page and on Microsoft Stream. Please refer to the Fall 2020 asynchronous access page (https://www.utdallas.edu/fall-2020/asynchronousaccess-for-fall-2020/).

COVID-19 Guidelines and Resources

The information contained in the following link lists the Universitys COVID-19 resources for students and instructors of record. Please see http://go.utdallas.edu/syllabus-policies.

Class Participation

Regular class participation is expected regardless of course modality. Students who fail to participate in class regularly are inviting scholastic difficulty.

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 Recordings may not be published, reproduced, or shared with those not in the class, or uploaded to other online environments except to implement an approved Office of Student AccessAbility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 (https://policy.utdallas.edu/utdsp5003).

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 Recordings may not be published, reproduced, or shared with those not in the class, or uploaded to other online environments except to implement an approved Office of Student AccessAbility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 (https://policy.utdallas.edu/utdsp5003).

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 AccessAbility accommodation. Failure to comply with these University requirements is a violation of the Student Code of Conduct (https://policy.utdallas.edu/utdsp5003).

Course Pre-requisites, Co-requisites, and/or Other Restrictions

Prerequisites: Score of at least 75% in ALEKS or MATH 2312 with a grade of C or better

Course Description

Discrete Mathematics for Computing I (3 semester hours). Principles of counting. Logic and proof methods, including induction. Basic recurrence relations. Basics of algorithm complexity. Sets, relations, functions. Elementary number theory.

Student Learning Objectives/Outcomes

Ability to use and apply basic definitions and properties of logic

Ability to recognize and construct valid proofs including proofs by induction

Ability to understand what an algorithm is, use algorithms, use Big-O notation and algorithmic complexity

Ability to use basic counting techniques

Ability to use and apply basic definitions and properties of sets, relations, functions

Required Textbooks and Materials

Text: "Discrete Mathematics and its Applications", 8th (or 7th) Edition, Kenneth H. Rosen, McGraw Hill

Textbooks and some other bookstore materials can be ordered online or purchased at the UT Dallas Bookstore (https://www.bkstr.com/texasatdallasstore/home).

Technical Requirements

In addition to a confident level of computer and Internet literacy, certain minimum technical requirements must be met to enable a successful learning experience. Please review the important technical requirements on the Getting Started with eLearning webpage (https://ets.utdallas.edu/elearning/students/current/getting-started).

This course will use Honorlock (https://honorlock.com/) an online exam proctoring tool. To successfully take an exam, you must have a web camera with microphone, a laptop or desktop computer (no tablets/phones), Chrome browser, a reliable internet connection and your photo ID. You will be prompted to install the Honorlock Chrome Extension (which you can remove after you finish the test). You will then access the exam within your eLearning course and go through the authentication process. The web camera will monitor you throughout your test.

Testing Guidelines: https://drive.google.com/file/d/1-UPNwioHh4fmnKVv_8X48KipG9rnQ8DD/view

Support Information: https://honorlock.com/support/

Course Access and Navigation

This course can be accessed using your UT Dallas NetID account on the eLearning website (https://elearning.utdallas.edu).

Please see the course access and navigation section of the Getting Started with eLearning webpage (https://ets.utdallas.edu/elearning/students/current/getting-started) for more information.

To become familiar with the eLearning tool, please see the Student eLearning Tutorials webpage (https://ets.utdallas.edu/elearning/students/current/tutorials).

UT Dallas provides eLearning technical support 24 hours a day, 7 days a week. The eLearning Support Center (https://ets.utdallas.edu/elearning/helpdesk) includes a toll-free telephone number for immediate assistance (1-866-588-3192), email request service, and an online chat service.

Communication

This course utilizes online tools for interaction and communication. Some external communication tools such as regular email and a web conferencing tool may also be used during the semester. For more details, please visit the Student eLearning Tutorials webpage (https://ets.utdallas.edu/elearning/students/current/tutorials) for video demonstrations on eLearning tools.

Student emails and discussion board messages will be answered within 3 working days under normal circumstances.

Distance Learning Student Resources

Online students have access to resources including the McDermott Library, Academic Advising, The Office of Student AccessAbility, and many others. Please see the eLearning Current Students webpage (https://ets.utdallas.edu/elearning/students/current) for more information.

Server Unavailability or Other Technical Difficulties

The University is committed to providing a reliable learning management system to all users. However, in the event of any unexpected server outage or any unusual technical difficulty which prevents students from completing a time sensitive assessment activity, the instructor will provide an appropriate accommodation based on the situation. Students should immediately report any problems to the instructor and also contact the online eLearning Help Desk (https://ets.utdallas.edu/elearning/helpdesk). The instructor and the eLearning Help Desk will work with the student to resolve any issues at the earliest possible time.

Academic Calendar

Tentative test dates: Sep 11, Oct 2, Oct 23, Nov 13, two more in final exam week.

(Each test covers about half of what would be covered in a typical full class period test.)

Grading Policy

90% Tests

10% Homework

Homework will be graded on a reasonable attempt basis. Missing or failed homework will not be scored as 0. Instead, it will be replaced by the average test grade.

Course Policies

Assignments are expected to be submitted on time. If circumstances prevent you from submitting an assignment on time, let me know by email, and you can submit a little late. (If late work turns out to be a big problem, we will institute late penalties.)

There is no extra credit.

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 Universitys academic support resources for all students.

Please go to Academic Support Resources webpage (https://go.utdallas.edu/academic-support-resources) for these policies.

UT Dallas Syllabus Policies and Procedures

The information contained in the following link constitutes the Universitys policies and procedures segment of the course syllabus. (https://go.utdallas.edu/syllabus-policies)