Course Information

CS 2305 Discrete Mathematics for Computing I Fall 2019

Professor Contact Information

Dr. James Willson jkw053000@utdallas.edu Office Hours: Tu 1:30 – 3:30, and by appointment; ECSS 4.608

Graders TBA

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

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 Edition, Kenneth H. Rosen, McGraw Hill

Assignment Policies

All assignments must be submitted online via eLearning.

Assignments are not submitted for a grade. They are to help direct your study time and to provide feedback on if you understand the material.

Please submit homework in a format which can be displayed in the elearning grading system. This includes pdf files and Microsoft Word documents, as well as various others.

If you choose to typeset your homework, it works well to export it to a pdf, then submit.

If you choose to write your homework longhand, scan it in, then submit the resultant pdf. If you take pictures of your homework, that's ok, *if you pass it through a cam scanning program*.

Do NOT submit multiple files (unless the assignment directs you otherwise). Do NOT submit compressed archives. Do NOT submit raw pictures not passed through a cam scanning program.

Do NOT submit pages oriented upside down or sideways.

Do NOT submit blurry or otherwise difficult to read images.

Attendance Policies

Class attendance is mandatory. In accordance with department policy, three consecutive unexcused absences will result in a one letter drop of the course grade, and four consecutive unexcused absences will result in a grade of F for the course.

Excused absences must be coordinated with the instructor prior to the absence, except for emergencies. A student who misses a class is still responsible for any handouts, announcements, reading material and contents of the missed class.

All make-up exams are scheduled and given at the discretion of the instructor.

Make-up exams are only given to those students who coordinate the missing of an exam prior to the originally scheduled exam date and time, or for an emergency.

Assignments & Academic Calendar

Tentative exam dates Exam 1: Thursday, September 26 Exam 2: Thursday, October 31 Exam 3: In finals week, as scheduled by the registrar

We will cover selected topics from chapters 1, 2, 3, 4, 5, and 6 from the textbook

Grading Policy

The final grade will be based on the three exams scores, equally weighted.

Grading will be on a curve, and will not be decided until all grades are in. No extra credit will be given.

Computer Science Mentor Center

All students are encouraged to visit the CS Department Computer Science Mentor Center frequently during the semester. The center is staffed by student mentors who can provide help on homework and other items related to our class. You may visit the center to study for tests, to do your homework, to work on exercises, to participate in study and review sessions, and to get one-on-one coaching on Discrete Math concepts.

The main walk-in tutoring room is ECSS 4.415.

The center website is csmc.utdallas.edu

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.

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