

CSE2315.003 Discrete Structures

Spring 2016

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Class: Monday, Wednesday 5:30 PM ~ 6:50 PM (Classroom: #243 COBA)

Instructor: Dr. Kyungseo Park

E-Mail: kyungseo.park@uta.edu

Website: <http://omega.uta.edu/~parkk/cse2315spring2016/cse2315spring2016.html>

Profile: <https://www.uta.edu/profiles/kyungseo-park>

Phone: TBA

Office: #320 ERB

Office Hours: 5:00 ~ 5:30pm, 6:50~7:20pm Monday and Wednesday

GTA: TBA

E-Mail: TBA

Phone: TBA

Office: TBA

Office Hours: TBA

Announcements

12/1/2015	This class web page is created
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Syllabus

Text Book

Mathematical Structures for Computer Science, Seventh Edition, by Judith L. Gersting, published by Freeman, 2014.

Course Objective and Description:

This course focuses on basic and fundamental mathematical knowledge to study area of computer science. The course covers propositional logic, predicate logic, proof technique, recursion, sets, combinatorics, basic probability, relations, functions, matrices, graphs, trees, graph algorithms, and boolean algebra.

Topics:

Chapter 1 : Formal Logic

Chapter 2 : Proofs, Recursion, and Analysis of Algorithms

Chapter 3 : Sets, Combinatorics, Probability, and Number Theory

Chapter 4 : Relations, Functions, and Matrices

Chapter 5 : Graphs and Trees

Chapter 6 : Graph Algorithms

Chapter 7 : Boolean Algebra and Computer Logic

Chapter 8 : Modeling Arithmetic, Computation, and Languages

Grading Policy:

Five to ten homework will be given during the semester. Allowed time for submitting homework is one week after the homework is handed out at a class. Three or more quizzes will be given. A date for the quiz will be announced at least one week before the quiz day. Also, we have two mid-term exams and one comprehensive final exam at the end of this semester.

- Homework 20%
- Quiz 15%
- Mid-term Exam 1 20%
- Mid-term Exam 2 20%
- Final Exam 25%

Grade Distribution:

A = 100 to 90, B = 89 - 75, C = 74 - 60, D = 59 - 50, F = 49 and below

(Important Note: The exact cutoffs for each letter grade will be determined at the end of the course)

Drop Policy:

Students may drop or swap (adding and dropping a class concurrently) classes through self-service in MyMav from the beginning of the registration period through the late registration period. After the late registration period, students must see their academic advisor to drop a class or withdraw. Undeclared students must see an advisor in the University Advising Center. Drops can continue through a point two-thirds of the way through the term or session. It is the student's responsibility to officially withdraw if they do not plan to attend

after registering. For more information, contact the Office of Financial Aid and Scholarships (<http://www.uta.edu/aaofao/>)

General Policies:

- Students are responsible for checking this web site frequently for course related material and announcements. This site will be the primary form of communication for the course unless otherwise specified.
- The Instructor reserves the right to modify the grading policy, course calendar and all other course policies. Make-ups for Tests may be arranged if your absence is caused by illness or emergency. In order to get acceptance for make-ups a written explanation along with the supporting documents must be submitted to the Instructor.
- Homework assignments are due by the end of the class on the due date. There will be a 5% penalty per day late. Lateness is determined *with respect to your submission time*. For instance, an assignment due on Monday: if submitted on Tuesday before 6:50 PM is considered one day late. *No assignments will be accepted if late more than three days.*
- All exams are closed book.

Student Code Name and Email Account:

Each student should send an email to the GTA and the instructor with the following information:

- The preferred email address for the student; the GTA or the instructor will use this email to notify students of relevant announcements and course information.
- A secret code name made of 5 alphanumeric characters (starting with a letter); the student will use this code to access their grades.

Disability:

If any student needs special accommodations because of a disability, please contact the Instructor during the first week of classes. Students are responsible for providing the instructor with official notification in the form of a letter certified by the Office for Students with Disabilities (OSD). Students experiencing a range of conditions (Physical, Learning, Chronic Health, Mental Health, and Sensory) that may cause diminished academic performance or other barriers to learning may seek services and/or accommodations by contacting: The Office for Students with Disabilities, (OSD) www.uta.edu/disability or calling 817-272-3364. Counseling and Psychological Services, (CAPS) www.uta.edu/caps/ or calling 817-272-3671.

Academic Integrity:

Students enrolled all UT Arlington courses are expected to adhere to the UT Arlington Honor Code:

- *I pledge, on my honor, to uphold UT Arlington's tradition of academic integrity, a tradition that values hard work and honest effort in the pursuit of academic excellence.*
- *I promise that I will submit only work that I personally create or contribute to group collaborations, and I will appropriately reference any work from other sources. I will follow the highest standards of integrity and uphold the spirit of the Honor Code.*

UT Arlington faculty members may employ the Honor Code as they see fit in their courses, including (but not limited to) having students acknowledge the honor code as part of an examination or requiring students to incorporate the honor code into any work submitted. Per UT System Regents' Rule 50101, §2.2, suspected violations of university's standards for academic integrity (including the Honor Code) will be referred to the Office of Student Conduct. Violators will be disciplined in accordance with University policy, which may result in the student's suspension or expulsion from the University.

Student Feedback Survey:

At the end of each term, students enrolled in classes categorized as "lecture," "seminar," or "laboratory" shall be directed to complete an online Student Feedback Survey (SFS). Instructions on how to access the SFS for this course will be sent directly to each student through MavMail approximately 10 days before the end of the term. Each student's feedback enters the SFS database anonymously and is aggregated with that of other students enrolled in the course. UT Arlington's effort to solicit, gather, tabulate, and publish student feedback is required by state law; students are strongly urged to participate. For more information, visit <http://www.uta.edu/sfs>.

Final Review Week:

A period of five class days prior to the first day of final examinations in the long sessions shall be designated as Final Review Week. The purpose of this week is to allow students sufficient time to prepare for final examinations. During this week, there shall be no scheduled activities such as required field trips or performances; and no instructor shall assign any themes, research problems or exercises of similar scope that have a completion date during or following this week unless specified in the class syllabus. During Final Review Week, an instructor shall not give any examinations constituting 10% or more of the final grade, except makeup tests and laboratory examinations. In addition, no instructor shall give any portion of the final examination during Final Review Week. During this week, classes are held as scheduled. In addition, instructors are not required to limit content to topics that have been previously covered; they may introduce new concepts as appropriate.

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Schedule

Note: Some sections of certain chapters may be omitted in case we run out of time. The lists of excluded sections will be specified during lectures, if any. Lecture material and due dates may be adjusted as the course progresses.

Week	Date	Exams	Homework		Quiz
			Hand-out	Turn-in	
1	1/20				
2	1/25 and 1/27				

3	2/1 and 2/3				
4	2/8 and 2/10				
5	2/15 and 2/17				
6	2/22 and 2/24	Exam 1			
7	2/29 and 3/2				
8	3/7 and 3/9				
-		Spring Break			
9	3/21 and 3/23				
10	3/28 and 3/30				
11	4/4 and 4/6	Exam 2			
12	4/11 and 4/13				
13	4/18 and 4/20				
14	4/25 and 4/27				
15	5/2 and 5/4				
16	TBA	Final Exam			

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