SYLLABUS

Instructor: Dr. Kejian Shi e-mail: shikejian@fhda.edu

Office Hour: Wednesday, 11:00am-12:00noon virtual office hour via zoom on canvas

Prerequisites: MATH 32 or MATH 32H (with a grade of C or better) or equivalent, and CIS 22A or

CIS 35A (with a grade of C or better) or equivalent.

Textbook: Discrete Mathematics, Brief Edition, by Susanna S. Epp

Materials: A scientific calculator recommended

Attendance: This class is an online class. My daily lecture videos will be posted on the Canvas. Students are

expected to watch and study the videos before each class. The videos can be watched multiple times. Questions will be answered during the class time and office hours. (It is the students' responsibility to drop by the appropriate deadline. Petitions to drop after the deadline will

not be considered by the instructor.)

Homework: Homework is the key to success in this class. Plan to devote a minimum of TWO hours to

homework for each class lesson.

Quizzes: Three Quizzes (33, 33, and 34 points) will be given during the last 40 minutes of the class on quiz

day. No makeup quizzes. Quiz problems are similar to homework problems and lecture examples.

Midterms: Two midterm examinations (100 points each) will be given during the last 60 minutes of the

class on the midterm exam day. No makeup except for extenuating circumstances assuming the

student notifies the instructor as soon as the emergency arises.

Final Exam: One comprehensive examination will be given from 1:45pm-3:45pm on Tuesday, March 22,

2022. Any student missing the final will receive an F grade for the course.

Integrity: Any types of cheating are not tolerated. Corresponding school rules will be followed.

Grading:	<u>Distribution</u>		<u>Scale</u>		
			Grade	Points	Percentage
			A+	473-500	95%-100%
	Quizzes	100	A	448-472	90%-94%
			A-	438-447	88%-89%
			B+	423-437	85%-87%
			В	398-422	80%-84%
	Midterms	200	B-	388-397	78%-79%
			C+	373-387	75%-77%
			C	323-372	65%-74%
			D+	298-322	60%-64%
	Final Exam	200	D	288-297	58%-59%
	-		D-	273-287	55%-57%
	Total	500	F	0-272	0%-54%

Math 22-23Z Tentative Schedule (Winter 2022)

Winter 2022								
	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY	SUNDAY	Wk
Jan	3 INSTRUCTION BEGINS	4	5	6	7	8	9	1
T	10	1.1, 1.2, 1.3	12	2.1, 2.2, 2.3	1.4	15	16	
Jan	10	3.1, 3.2, 3.3	12	3.4, 4.1 Quiz #1		15 Last Day to Add	16 Last Day to Drop with refund/credit, with no record.	2
Jan	Last day to drop without a W M L K Holiday	18 Census Day 4.2, 4.3	19	20 4.4, 4.5, 4.6	21	22	23	3
Jan	24	25 5.1, 5.2 Review	26	27 Exam#1	28 Last day to request P/NP	29	30	4
Jan / Feb	31	Solutions 5.3, 5.4	2	5.5, 5.6	4	5	6	5
Feb	7	6.1, 6.2	9	10 6.3, 6.4 Quiz #2	11	12	13	6
Feb	14	7.1, 7.2	16	7.3, 7.4	18 Lincoln's B-Day Holday	19 President's Weel	20 kend	7
Feb	21 Washington's B-day Holiday	22 8.1, 8.2 Review	23	24 Exam#2	25 Last Day to drop with a W	26	27	8
Feb / March	28	Solutions 8.3, 8.5	2	9.1, 9.2, 9.3	4	5	6	9
March	7	9.4, 9.5	9	9.6 Quiz #3	11	12	13	10
March	14	15	16	17	18	19	20	11
March	21	10.1, 10.2, 10.3 22 FINAL EXAM	23	Review 24	25	26	27	12
		1:45pm-3:45pm						

Sections	Problems (Epp, Brief Ed.)					
1.1	1, 2, 3,, 13.					
1.2	1, 2, 3,, 12.					
1.3	2, 4, 6,, 20.					
2.1	2 - 5, 8, 9, 13 - 17, 22, 26, 28, 31, 33, 35, 42 - 44, 46.					
2.2	2, 4, 8, 10, 13, 14b, 17, 18, 20, 22, 25, 27, 33, 35, 38, 41, 43, 44, 46.					
2.3	2, 4, 11, 12b, 20, 21, 23, 28, 29, 31, 32, 36, 38, 40, 42.					
3.1	4, 6, 7, 9, 10, 15, 16, 18, 23, 24, 28, 32.					
3.2	3, 5, 8, 10, 12, 19, 21, 23, 29, 31, 33, 38, 40, 44, 47.					
3.3	11, 14, 16, 17, 19, 23, 30, 35, 36, 41, 43, 44.					
3.4	4, 6, 11, 12, 14, 15, 17, 19, 22, 24, 26.					
4.1	5, 12, 30, 32, 36, 41, 42, 46, 52, 53, 57, 58.					
4.2	5, 14, 19, 23, 26, 28, 30.					
4.3	3, 5, 13, 18, 23, 24, 26, 28, 36, 37, 41, 46, 49.					
4.4	2, 4, 8, 9, 15, 19, 22, 25,30, 37, 38, 43.					
4.5	7, 10, 15, 17, 20, 24, 29, 33, 34c.					
4.6	2, 4, 8, 10 11, 15,23, 28, 33.					
5.1	2, 4, 9, 11, 17, 29, 31, 43, 47, 49, 52, 53, 55, 59, 61, 63, 65, 68, 72.					
5.2	4, 7, 9, 12, 16, 17, 18, 23, 27, 32.					
5.3	2, 3, 7, 9, 15, 17, 20, 25, 29.					
5.4	1, 3, 5, 7, 9, 15, 17, 18.					
5.5	2, 4, 8, 12, 14, 16, 19, 22, 26, 32.					
5.6	4, 7, 8, 13, 20, 23, 25, 33, 38, 52.					
6.1	3, 6, 8, 9, 12, 14, 17, 18, 20,23, 27, 30, 33.					
6.2	2, 7, 9, 14, 19, 21, 23b, 26, 31, 35, 39.					
6.3	2, 8, 13, 16, 19, 20, 32, 35, 43.					
6.4	2, 3, 5, 9, 11aii, 11aiii, 11av, 11b.					
7.1	2, 4, 10, 12, 22, 23, 27, 35, 37, 39, 42.					
7.2	2, 5, 7, 9, 11, 16, 17, 20, 23, 30, 33, 37.					
7.3	2, 4, 7, 10, 11, 17, 19, 22, 24, 25.					
7.4	3, 4, 8, 9, 11, 15, 17, 18, 22, 27, 34.					
8.1	3, 5, 7, 8, 17, 18, 20 21.					
8.2	2, 10, 13, 17, 19, 21, 21, 26, 30, 38, 42.					
8.3	2, 4, 6, 9, 10,13, 14, 17, 19, 24, 40.					
8.5	2, 4, 6, 8, 10, 12, 14.					
9.1	4, 6, 8, 10, 13, 14, 16, 19, 21, 22, 24, 26.					
9.2	5, 11, 14, 15, 18, 21, 22, 24, 26, 27, 30, 33, 36.					
9.3	6, 11, 20, 23, 25, 29, 32, 35.					
9.4	2, 4, 8, 13, 16, 19, 23, 25, 28, 30, 31, 36.					
9.5	4, 5, 7, 10, 12, 14, 17, 20, 22, 24, 25, 26a-d, 28, 30.					
9.6	5, 9, 11, 14, 16, 17, 30, 34, 37, 44, 49, 54.					
10.1	4, 6, 9, 16, 19, 22, 26c, 27, 33, 37, 39, 40, 44.					
10.2	2, 5, 6, 8, 13, 15, 20, 22, 29, 30, 32, 33, 47.					
10.3	3, 7, 15, 17, 19, 23, 26, 29.					
10.4	2, 3, 5, 7, 11, 14, 17, 19, 20.					

Student Learning Outcome(s):

- *Critique a mathematical statement for its truth value, defend choice by formulating a mathematical proof or constructing a counterexample.
- *Analyze and apply patterns of discrete mathematical structures to demonstrate mathematical thinking.