SYLLABUS

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

Office Hour: Monday, 10:00am-11:00am 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 synchronous class. All my lecture videos will be posted on the Canvas.

Students are expected to watch and study the videos following the **schedule**. The best way to study is to watch the video ahead of schedule. I will talk about the material during the class based on your questions. The videos can be watched multiple times. Questions will be answered during class time, office hours, or through email. (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 hour.

Quizzes: Three Quizzes (33, 33, and 34 points) will be given from 2:45pm-3:45pm on the 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 from 1:45pm-3:45pm 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 8:00pm-11:00pm on Tuesday, March 28,

2023. 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 2023)

Winter 2023								
	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY	SUNDAY	Wk
Jan	9 INSTRUCTION	10	11	12	13	14	15	VVK
Ton	BEGINS 16	1.1, 1.2, 1.3	18	2.1, 2.2, 2.3	20	21	22	1
Jan	M L K Holiday			3.4 Quiz #1			Last Day to Drop without a W	2
Jan	(No class)	3.1, 3.2, 3.3	25	2:45pm-3:45pm 26	27	28	29	
Jan	23	24	25	20	21	20	29	
	Census Day	4.2, 4.3		4.4, 4.5, 4.6			_	3
Jan /	30	31	1	2	3	4	5	
Feb		Review 5.1, 5.2		Exam #1 1:45pm-3:45pm				4
Feb	6	7	8	9	10	11	12	
		Solutions 5.3, 5.4		5.5, 5.6				5
Feb	13	14	15	6.3	17 Lincoln's B-Day	18	19	
		6.1, 6.2		Quiz #2 2:45pm-3:45pm		President's Weel	kend	6
Feb	20 Washington's B-day Holiday	21	22	23	24	25	26	7
		6.4, 7.1		7.2, 7.3, 7.4				
Feb /	27	28	1	2	3 Last day: drop with a W	4	5	
March		Review 8.1, 8.2		Exam #2 1:45pm-3:45pm				8
March	6	7	8	9	10	11	12	
		Solutions 8.3, 8.5		9.1, 9.2, 9.3				9
March	13	14	15	9.6	17	18	19	
		9.4, 9.5		Quiz #3 2:45pm-3:45pm				10
March	20	21	22	23	24	25	26	
		10.1, 10.2, 10.3		10.4 Review				11
March	27	28	29	30	31	1	2	
/ April		Final Exam 8:00pm-11:00pm						12
		1						

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.

Office Hours:

M,T,W,TH 10:00 AM 11:00 AM Zoom