Math 22-52Z, Fall, 2022

## **SYLLABUS**

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

Office Hour: Thursday, 10:00am-11:0am virtual office hour via zoom on canvas

**Prerequisites:** Math 43 (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 office hours or through emails. (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 from 8:00pm-9:00pm on quiz days. Quiz

problems are like homework problems and lecture examples. No makeup quizzes. The lowest quiz

score will be replaced by the average of the two highest quiz scores.

Midterms: Two midterm examinations (100 points each) will be given from 8:00pm-10:00pm on the

midterm exam days. No makeup exams. The lowest midterm score will be replaced by the

percentage of the final exam if the final percentage is higher.

Final Exam: One comprehensive examination will be given from 8:00pm-11:00pm on Tuesday, Dec. 13,

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>		Scale			
			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 22-52Z Tentative Schedule (Fall 2022)

	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY	SUNDAY	Wk
SEP	26	27	28	29	30	1	2	
	INSTRUCTION							
OCT	BEGINS							1
	1.1, 1.2, 1.3	2.1	2.2	2.3	3.1			
OCT	3	4	5	6	7	8	9	
OCT					Quiz #1	Last Day to Add	Last Day to Drop	2
	3.2	3.3	3.4	4.1	8:00pm-9:00pm		with no Record	4
	10	11	12	13	14	15	16	
OCT	Census Day							
								3
	4.2	4.3	4.4	4.5	4.6			
	17	18	19	20	21	22	23	
OCT					T			
	5.1	5.2	5.3	Review	Exam #1			4
	5.1	5.2	3.3	27	8:00pm-10:00pm 28	29	30	
ост	24	23	20	21	20	2)	30	
001								5
	Solution	5.4	5.5	5.6	6.1			
OCT	31	1	2	3	4	5	6	
1								
NOV					Quiz #2			6
	6.2	6.3	6.4	7.1	8:00pm-9:00pm	- 10	- 10	
NOX	7	8	9	10	11	12	13	
NOV					VETERAN'S			7
	7.2	7.3	7.4	8.1	DAY NO CLASSES			/
	14	15	16	17	18	19	20	
NOV					Last Day to Drop a W	_,		
			Review	Review	Exam #2			8
	8.2	8.3	8.5		8:00pm-10:00pm			
	21	22	23	24	25	26	27	
NOV				THANKSGIVING	THANKSGIVING			
	Solution	9.1	9.2	NO CLASSES	NO CLASSES			9
NOV	Solution 28	9.1	30	1	2	3	4	
/	20	2)	30	1	2	3	7	
DEC					Quiz #3			10
	9.3	9.4	9.5	9.6	8:00pm-9:00pm			
	5	6	7	8	9	10	11	
DEC								
	40.	40 -			Review			11
	10.1	10.2	10.3	10.4	4.5		10	
DEC	12	13	14	15	16	17	18	
DEC		Final Exam						12
		8:00pm-11:00pm						1.2
		22100				12 weeks, 53 days of instru	ction	

## **Homework Problems:**

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):**

## Office Hours:

Zoom	M	10:00 AM	11:00 AM
Zoom	Т	10:00 AM	11:00 AM
Zoom	TH	10:00 AM	11:00 AM
Zoom	W	10:00 AM	11:00 AM

<sup>\*</sup>Critique a mathematical statement for its truth value, defend choice by formulating a mathematical proof or constructing a counterexample.

<sup>\*</sup>Analyze and apply patterns of discrete mathematical structures to demonstrate mathematical thinking.