Math 22-51Z,

MTWThF

SYLLABUS

Instructor: e-mail: Office Hour:	Dr. Kejian Shi shikejian@fhda.edu Wednesdays: 12:00noon-1:00pm (Canvas zoom) or by appointment
Prerequisites: Textbook: Materials:	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. <i>Discrete Mathematics</i> , Brief Edition, by Susanna S. Epp A scientific calculator recommended
Attendance:	This class is an online asynchronous class . My daily lecture videos will be posted on the Canvas. Students are expected to follow the schedule to watch and study the videos. The videos can be watched multiple times. Questions will be answered during 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 lesson. Homework assignments are due on the test (quiz or midterm) days. Each collection counts 10 points, the total is 60 points.
Quizzes:	<u>Three</u> Quizzes (33, 33, and 34 points) will be given on canvas the quiz days. No makeup quizzes. The lowest quiz score will be replaced by the average of the two highest quiz scores.
Midterms:	<u>Two</u> midterm examinations (100 points each) will be given on canvas the midterm exam day. No makeup tests. The lowest midterm score will be replaced by the percentage of the final exam if the final percentage is higher.
Final Exam:	<u>One</u> comprehensive examination will be given on canvas from 8:00pm–10:00pm on Tuesday, 6/24/2025. Any students missing the final will receive an F grade for the course.
Integrity:	Any type of cheating is not tolerated. Corresponding school rules will be followed.

Grading:	Distribution	<u>n</u>		Scale			
	Homework	60	Grade	Points	Percentage		
			A+	529-560	95%-100%		
			А	501-528	90%-94%		
	Quizzes	100	A-	490-500	88%-89%		
	-		B+	473-489	85%-87%		
			В	445-472	80%-84%		
	Midterms	200	В-	434-444	78%-79%		
			C+	417-433	75%-77%		
			С	361-416	65%-74%		
	Final Exam	200	D+	333-360	60%-64%		
	_		D	322-332	58%-59%		
			D-	305-321	55%-57%		
	Total	560	F	0-304	0%-54%		

Tentative Schedule:

	MON	TUE	WED		THUR		FRI	SAT	SUN	Wk
	7		8	9		10	11	12	13	
APL										1
	1.1, 1.2, 1.3	2.1	2.2		2.3		3.1			
	14	1	5	16		17	18	19	20	
APL							Quiz #1		Last day to drop	2
	3.2	3.3	3.4		4.1		8:00pm-8:45pm		without a W	
A DI	21	2	2	23		24	25	26	27	2
APL	Census Day 4.2	4.3	4.4		4.5		4.6			3
APL	4.2		9	30	4.5	1	4.0	3	4	
	20	2		50		1	Exam #1	5		4
MAY	5.1	5.2	5.3		Reviev	v	8:00pm-9:00pm			•
	5		6	7		8	9	10	11	
MAY										5
	Solutions	5.4	5.5		5.6		6.1			
	12	1	3	14		15	16	17	18	
MAY							Quiz #2			6
	6.2	6.3	6.4		7.1		8:00pm-8:45pm			
	19	2	0	21		22	23	24	25	
MAY	Solutions									7
N / A X /	7.2	7.3	7.4	20	8.1	20	8.2	21	1	
MAY	26 Memorial Day	2		28		29	(Drop with "W") 30 Exam #2	31	1	8
/ JUN	Holiday	8.3	8.5		Reviev	67	Exam #2 8:00pm-9:00pm			0
3011	2		3	4	KCVICV	5	6.00pm-9.00pm	7	8	
JUN	_			•		U			Ŭ	9
	Solutions	9.1	9.2		9.3		9.4			
	9	1	0	11		12	13	14	15	
JUN							Quiz #3			10
	9.5	9.6	10.1		10.2		8:00pm-8:45pm			
	16	1	7	18		19	20	21	22	
JUN					Juneteenth					11
TT D T	10.3	10.4	Revie		Holida		Review			
JUN	23		4	25		26	27	28		10
/ JUL		Final Exam 8:00pm-10:00p							Graduation	12
JOL	30	a.oohiii-10:00bi	m 1	2		3	4	5	6	
JUL	Summer		1	2		5	4	5	0	1
101	classes start									
	clubbeb built									

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):

• 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:

Μ	11:30 AM - 12:30 PM	S16-A
Т	12:00 PM - 1:00 PM	Zoom,Canvas
W	12:00 PM - 1:00 PM	Zoom,Canvas
тн	12:00 PM - 1:00 PM	Zoom, Canvas