SYLLABUS

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

Office Hour: Thursdays: 12:00noon-1:00pm (Canvas zoom) or by appointment

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 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: Three 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: Two 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: One 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>1</u>		<u>Scale</u>			
	Homework	60	Grade	e Points	Percentage		
			A+	529-560	95%-100%		
			A	501-528	90%-94%		
	Quizzes	100	A-	490-500	88%-89%		
			B+	473-489	85%-87%		
			В	445-472	80%-84%		
	Midterms	200	B-	434-444	78%-79%		
			C+	417-433	75%-77%		
			C	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		15		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 DY	21		22		23		24	25	26	27	2
APL	Census Day	4.2		4.4		4.5		4.6			3
A DI	4.2 28	4.3	20	4.4	20	4.5	1	4.6	2	1	
APL /	28		29		30		1	Exam #1	3	4	4
MAY	5.1	5.2		5.3		Review	17	8:00pm-9:00pm			4
WIAT	5.1	3.2	6	3.3	7	Keview	8	9:00pm-9:00pm	10	11	
MAY			U		,		O	,	10	11	5
1412 1 1	Solutions	5.4		5.5		5.6		6.1			3
	12		13		14		15	16	17	18	
MAY								Quiz #2			6
	6.2	6.3		6.4		7.1		8:00pm-8:45pm			
	19		20		21		22	23	24	25	
MAY	Solutions										7
	7.2	7.3		7.4		8.1		8.2			
MAY	26		27		28		29	(Drop with "W") 30	31	1	
/	Memorial Day							Exam #2			8
JUN	Holiday	8.3		8.5		Review		8:00pm-9:00pm			
	2		3		4		5	6	7	8	
JUN											9
	Solutions	9.1	1.0	9.2	1.1	9.3	10	9.4	1.4	1.5	
TIDI	9		10		11		12	13	14	15	10
JUN	0.5	0.6		10.1		10.2		Quiz #3			10
	9.5	9.6	17	10.1	18	10.2	19	8:00pm-8:45pm 20	21	22	
JUN	10		1 /		10	Juneteenth 1		20	21	22	11
JUIN	10.3	10.4		Reviev	L7	Holida		Review			11
JUN	23	10.4	24	Review	25	Honda	y 26	27	28	29	
/		Final Exa			23		20	21	20	Graduation	12
JUL		8:00pm-10:0								Cradattion	12
	30		1		2		3	4	5	6	
JUL	Summer										1
	classes start										

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, 11aii, 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	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
TH	12:00 PM - 1:00 PM	Zoom,Canvas