SYLLABUS

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

Office Hour: Thursdays: 10:20am-11:20am 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 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

and should be submitted to canvas. Each collection counts 10 points, the total is 60 points.

Quizzes: Three Quizzes (33, 33, and 34 points) will be given in class on the quiz day. 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 in class on 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 from 8:00pm-10:00pm on Wednesday, June 26,

2024. (This is school scheduled final exam time. It cannot be changed by the instructor.) 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:	<u>Distribution</u>		Scale		
	Homework	60	Grad	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
	8	Ģ	10	11	12	13	14	
APL								1
	1.1, 1.2, 1.3	2.1	2.2	2.3	3.1			
	15	16	5 17	18	19	20	21	
APL		2.2		4.4	Quiz #1	Last day to add	Last day to drop	2
	3.2 22	3.3	3.4	4.1	8:00pm-8:45pm	27	with no record	
APL	Solutions	23	24	25	26	27	28	3
ALL	4.2	4.3	4.4	4.5	4.6			3
APL	29	3(2	3	4	5	
/				_	Exam #1	·		4
MAY	5.1	5.2	5.3	Review	8:00pm-9:00pm			
	6	7	8	9	10	11	12	
MAY								5
	Solutions	5.4	5.5	5.6	6.1			
	13	14	15	16		18	19	
MAY					Quiz #2			6
	6.2	6.3	6.4	7.1	8:00pm-8:45pm	25	26	
MAY	20 Solutions	21	. 22	23	24	25	26	7
IVIA I	7.2	7.3	7.4	8.1	8.2			
MAY	27	28			(Drop with "W") 31	1	2	
/	Memorial Day	_`			Exam #2	-	_	8
JUN	Holiday	8.3	8.5	Review	8:00pm-9:00pm			
	3		5	6	7	8	9	
JUN								9
	Solutions	9.1	9.2	9.3	9.4			
	10	11	. 12	13	14	15	16	
JUN	0.5	0.6	10.1	10.2	Quiz #3			10
	9.5 17	9.6	10.1	10.2 20	8:00pm-8:45pm 21	22	23	
JUN	17	10	Juneteenth Day	20	21	22	23	11
3014	10.3	10.4	Holiday	Review	Review			11
JUN	24	25	•	27	28	29	30	
/			Final Exam					12
JUL			8:00pm-10:00pm					
	1	2	2 3	4	5	6	7	
JUL	SUMMER							1
	BEGINS							

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	09:50 AM	10:50 AM	In-Person	S16-A
W	09:50 AM	10:50 AM	In-Person	S16-A
Т	12:20 PM	01:20 PM	In-Person	S16-A
TH	10:20 AM	11:20 AM	Zoom	
TH	11:20 AM	12:20 PM	Zoom	
TH	11:20 AM	12:20 PM	Zoom	