SYLLABUS

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

Office Hour: Thursdays: 1:30pm-2:30pm (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 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,

3/26/2025. 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:	<u>Distribution</u>		<u>Scale</u>		
	Homework	60	Grade	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:

Jan 13	Winter 2025								
Solutions Solu		MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY	SUNDAY	Wk
INSTRUCTION BEGINS	Jan								****
1.1, 1.2									
Jan									1
Solutions Solu	Ion						19	10	
3.2 3.3 3.4 4.1 8:00pm-8:45pm to Drop without a W 2	Jan	13	14	13	10	17	10		
Solutions Solu									2
Last day to drop without a W M L K Holiday A.2 A.3 A.4 A.5 A.5 A.6									
Without a W M L K Holiday 4.2 4.3 4.4 4.5 31 1 2 2 2 3 3 4.6 5.1 5.2 Review 8:00pm-9:00pm 4.6 5.1 5.2 Review 8:00pm-9:00pm 5 5 5.6 5 5 6 7 8 9 5 5 6 7 8 9 5 6 7 8 9 5 6 7 8 9 6.1 6.2 6.3 8:00pm-8:45pm 4.6 5.1 5.2 6.3 8:00pm-8:45pm 6.1 6.2 6.3 8:00pm-8:45pm 6.1 6.2 6.3 8:00pm-8:45pm 6.1 6.2 6.3 8:00pm-8:45pm 6.1 6.2 6.3 8:00pm-8:45pm 7 7 7 7 7 7 7 7 7	Jan			22	23	24	25	26	
ML K Holiday			Census Day						3
Jan 27 28 29 30 Last day to 31 request P/NP Exam #1 2 4 4 4 5 6 7 8 9 5 6 7 8 9 5 6 7 8 9 9 17 18 19 20 21 22 23 19 10 10 11 12 13 14 15 16 16 17 18 19 20 21 22 23 19 19 10 10 10 10 10 10			4.2	4.3	4.4	4.5			
A.6 S.1 S.2 Review R	Jan			29	30		1	2	
A.6 S.1 S.2 Review 8:00pm-9:00pm Solutions Solutions S.3 S.4 S.5 S.6 Solutions S.6 Solutions S.6 S.6 Solutions S.6 S.6 Solutions S.6 S.6 S.6 S.6 Solutions S.6 S.6									
Solutions Same and a Same		16	5 1	5.2	Doviow				4
Solutions Solu	Jan						8	9	
Solutions 5.3 5.4 5.5 5.6									
Feb	Feb								5
Comparison Com	Ech						15	16	
Color	reb	10	11	12	13		15	10	
Teb 17							President's Week	kend	6
Washington's B-day Holiday 6.4 7.1 7.2 7.3 7.2 7.3 7.2 7.3 7.2 7.3 7.4 7.4 8.1 8.2 Review 8:00pm-9:00pm 8 9 9 9 9 9 9 9 9 9									
Holiday 6.4 7.1 7.2 7.3 7.5	Feb		18	19	20	21	22	23	
Feb 24 25 26 27 Last Day to 28 dropwith a W Exam #2 8:00pm-9:00pm Feb 3 4 5 6 7 8 9 March Solutions 8.3 8.5 9.1 9.2		-							7
Feb 24 25 26 27 Last Day to 28 dropwith a W Exam #2 1 2 7.4 8.1 8.2 Review 8:00pm-9:00pm 8 9 March Solutions 8.3 8.5 9.1 9.2 9.2		Homay	6.4	7.1	7.2	7.3			,
7.4 8.1 8.2 Review 8:00pm-9:00pm Feb	Feb	24				Last Day to 28	1	2	
7.4 8.1 8.2 Review 8:00pm-9:00pm Feb / March Solutions 8.3 8.5 9.1 9.2									
Feb 3 4 5 6 7 8 9 9 9 1 9 1 9 2 9 1 9		7.4	Q 1	8.2	Doviou				8
March Solutions 8.3 8.5 9.1 9.2	Feb						8	9	
Solutions 8.3 8.5 9.1 9.2									
	March	a							9
March 10 11 12 12 14 15 16 16	Monoh	Solutions 10	8.3	8.5	9.1	9.2	15	16	
March 10 11 12 13 14 15 16	March	10	11	12	13	14	15	10	
Quiz #3						Quiz #3			10
9.3 9.4 9.5 9.6 8:00pm-8:45pm									
March 17 18 19 20 21 22 23	March	17	18	19	20	21	22	23	
									11
10.1 10.2 10.3 10.4 Review		10.1	10.2	10.3		Review			11
March 24 25 26 27 28 29 30	March	24	25			28	29	30	
EINAL EVAM				EINIAI EXABI					12
FINAL EXAM 8:00pm-10:00pm									12
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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:

T	11:30 AM	12:30 PM	In-Person	S16-A
TH	12:30 PM	01:30 PM	Canvas	
Т	01:30 PM	02:30 PM	Canvas	
TH	01:30 PM	02:30 PM	Canvas	