Math 22-35,   **TTh, 1:30pm-3:45pm, G5**   **Spring, 2024**

SYLLABUS

Instructor:	Dr. Kejian Shi
e-mail:	shikejian@fhda.edu
Office Hour:	Tuesdays: 12:20pm-1:20pm (Room S16-A)

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 **in-person class**. Students are expected to attend all classes on time. Students who are absent more than **two times** may be dropped from the class. However, **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 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: <u>**One**</u> **comprehensive examination** will be given from **1:45pm–3:45pm** on **Tuesday, June 25, 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>

Homework	60		
Quizzes	100		
Midterms	200		
Final Exam	200		
Total	560		

<u>Scale</u>

Grade	Points	Percentage
A+	529-560	95%-100%
A	501-528	90%-94%
A-	490-500	88%-89%
B+	473-489	85%-87%
B	445-472	80%-84%
B-	434-444	78%-79%
C+	417-433	75%-77%
C	361-416	65%-74%
D+	333-360	60%-64%
D	322-332	58%-59%
D-	305-321	55%-57%
F	0-304	0%-54%

Tentative Schedule:

	MON	TUE	WED	THUR	FRI	SAT	SUN	Wk
APL	8	9 **1.1, 1.2, 1.3**	10	11 **2.1, 2.2, 2.3**	12	13	14	1
APL	15	16 **3.1, 3.2, 3.3**	17	18 **3.4, 4.1** **Quiz #1**	19	20 Last day to add	21 Last day to drop with no record	2
APL	22	23 **Solutions** **4.2, 4.3**	24	25 **4.4, 4.5, 4.6**	26	27	28	3
APL / MAY	29	30 **5.1, 5.2, 5.3**	1	2 **Review** **Exam #1**	3	4	5	4
MAY	6	7 **Solutions** **5.4, 5.5**	8	9 **5.6, 6.1, 6.2**	10	11	12	5
MAY	13	14 **6.3, 6.4**	15	16 **7.1, 7.2** **Quiz #2**	17	18	19	6
MAY	20	21 **Solutions** **7.3, 7.4**	22	23 **8.1, 8.2**	24	25	26	7
MAY / JUN	27 Memorial Day **Holiday**	28 **8.3, 8.5**	29	30 **Review** **Exam #2**	31 Last day to drop with a "W"	1	2	8
JUN	3	4 **Solutions** **9.1, 9.2**	5	6 **9.3, 9.4**	7	8	9	9
JUN	10	11 **9.5, 9.6**	12	13 **10.1, 10.2** **Quiz #3**	14	15	16	10
JUN	17	18 **10.3, 10.4**	19 Juneteenth Day **Holiday**	20 **Review**	21	22	23	11
JUN / JUL	24	25 **Final Exam** **1:45pm-3:45pm**	26	27	28	29	30	12
JUL	1 SUMMER BEGINS	2	3	4	5	6	7	1

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:

M	09:50 AM	10:50 AM	In-Person	S16-A
W	09:50 AM	10:50 AM	In-Person	S16-A
T	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	