SYLLABUS

Instructor: Dr. Kejian Shi e-mail: shikejian@fhda.edu Office & Phone: S-16A, (408)864-8481

Office Hour: MTWTh:10:30 --11:00 a.m., 1:30 p.m. – 2:00, and **F**: 10:30 --11:00 a.m. or by appointment

Prerequisites: Math 43 (with a grade of C or better), or equivalent **Textbook:** Discrete Mathematics, Brief Edition, by Susanna S. Epp

Materials: A scientific calculator recommended

Attendance: Students are expected to attend all classes on time. Students who are absent more than **3 times**

may be dropped from the class. However, it is the students' responsibility to drop by the appropriate deadline. Petitions to drop after the dead line will not be considered by the

instructor.

Homework: Three Homework sets will be collected, each on the examination days (20 points for each

collection). No late hws will be accepted. Hw is the key to success in this class. Plan to devote a

minimum of TWO hours to hw for each class hour.

Quizzes: Three Quizzes (33, 33, and 34 points) will be given in class. No makeup quizzes. Quiz problems

are similar to homework problems and lecture examples.

Midterms: Two one-class-hour midterm examinations (100 points each) will be given in class. No makeup

except for extenuating circumstances assuming the student notifies the instructor as soon as the

emergency arises.

Final Exam: One two-hour comprehensive examination will be given on Wednesday, 12/11/2019,

from **7:00am–9:00am**. Any student missing the final will receive an F grade for the course.

Integrity: Any types of cheating are not tolerated. Corresponding school rules will be followed.

Grading:	Distribution	<u>!</u>	Scale			
	Hamanada	<i>(</i> 0		rade	Points	Percentage
	Homework	60		A+ A	530-560 502-529	95%-100% 90%-94%
				A-	490-501	88%-89%
	Quizzes	100		B+	474-489	85%-87%
				В	446-473	80%-84%
				B-	434-445	78%-79%
	Midterms	200		C+	418-433	75%-77%
				C	362-417	65%-74%
				D+	334-361	60%-64%
	Final Exam	200		D	322-333	58%-59%
	_			D-	308-321	55%-57%
	Total	560		F	0-307	0%-54%

Tentative Schedule:

	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY	SUNDAY	Wk
	23	24	25	26	27	28	29	
SEP	INSTRUCTION							
	BEGINS 1.1	1.2	1.3	2.1	2.2			1
SEP	30	1,2	2	3	4	5	6	
/					Review	Last Day to Add	Last Day to Drop	
OCT	2.2	2.1	2.2	2.2	Quiz #1		with no Record	2
ОСТ	2.3	3.1 8	3.2	3.3	Quiz #1	12	13	
	Census Day							
								3
ОСТ	3.4	4.1	4.2	4.3	4.4	19	20	
ocı	14	13	10	Review	Last Day to	1)	20	
					Request P/NP			4
OCT	4.5	4.6	5.1	Hw/Proj. 1 Due	Exam #1	26	27	
ОСТ	21	22	23	24	25	26	27	
								5
	Solution	5.2	5.3	5.5	5.6			
OCT	28	29	30	31	Review 1	2	3	
/ NOV					Review	l		6
	6.1	6.2	6.3	6.4	Quiz #2			
NOV	4	5	6	7	8	9	10	
								7
	7.1	7.2	7.3	7.4	8.1			, '
NOV	11	12	13	14	15	16	17	
	VETERAN'S			Review	Last Day to Drop			0
	DAY NO CLASSES	8.2	8.3	Hw/Proj. 2 Due	with a W Exam #2			8
NOV	18	19		21	22	23	24	
	Solution	9.1	9.2	9.3	9.4			9
NOV	25	26		28	29	30	1	
/			Review	THANKSGIVING	THANKSGIVING			
DEC	9.5	9.6	Quiz #3	NO CLASSES	NO CLASSES			10
DEC	2	3.0		5	6	7	8	
					Review			
	10.1	10.0	10.2	40.4	W /D 1.4.D			11
DEC	10.1	10.2	10.3	10.4	Hw/Proj. 3 Due	14	15	
		10	Final Exam	12	13	14		
			7:00AM-9:00					12
						12 weeks 52 days of	truction	
						12 weeks, 53 days of ins	ruction	

Homework Problems:

Sections	Problems
Beetigis	HW #1
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.
	HW#2
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.
5.5	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.
0.1	HW#3
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.
	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. 4, 6, 9, 16, 19, 22, 26c, 27, 33, 37, 39, 40, 44.
10.1	2, 5, 6, 8, 13, 15, 20, 22, 29, 30, 32, 33, 47.
10.2	3, 7, 15, 17, 19, 23, 26, 29.
10.3	
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.