

Math 22-5,

8:30 a.m. -- 9:20,

MTWThF,

Spring, 2020

**SYLLABUS**

**Instructor:** Dr. Kejian Shi  
**e-mail:** shikejian@fhda.edu  
**Office & Phone:** S-16A, (408)864-8481  
**Office Hour:** MTWThF: 3:00pm-4:00pm, 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. **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:** Homework is the key to success in this class. Plan to devote a minimum of **TWO hours** to homework for each class lesson.

**Quizzes:** **Three Quizzes** (33, 33, and 34 points) will be given during the class time period. 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 during the class time period. 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, June 24, 2020**, 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.

<b>Grading:</b>	<u>Distribution</u>		<u>Scale</u>		
			Grade	Points	
				Percentage	
	Quizzes	100	A+	473-500	95%-100%
			A	448-472	90%-94%
			A-	438-447	88%-89%
			B+	423-437	85%-87%
			B	398-422	80%-84%
	Midterms	200	B-	388-397	78%-79%
			C+	373-387	75%-77%
			C	323-372	65%-74%
			D+	298-322	60%-64%
	Final Exam	200	D	288-297	58%-59%
		-----	D-	273-287	55%-57%
	Total	500	F	0-272	0%-54%

Math 22-5 Tentative Schedule (Spring 2020)

	MON	TUE	WED	THUR	FRI	SAT	SUN	Wk
APL	13 <b>1.1, 1.2</b>	14 <b>1.2, 1.3</b>	15 <b>2.1</b>	16 <b>2.2</b>	17 <b>2.3</b>	18	19	1
APL	20 <b>3.1</b>	21 <b>3.2</b>	22 <b>3.3</b>	23 <b>3.4</b>	24 <b>Review Quiz #1</b>	25 <small>Last day to add Drop for refund</small>	26 <small>Last day to drop with no record</small>	2
APL / MAY	27 <b>4.1</b>	28 <b>4.2</b>	29 <b>4.3</b>	30 <b>4.4</b>	1 <b>4.5</b>	2	3	3
MAY	4 <b>4.6</b>	5 <b>Review</b>	6 <b>Exam #1</b>	7 <b>Solution</b>	8 <small>Request P/NP</small> <b>5.1</b>	9	10	4
MAY	11 <b>5.2</b>	12 <b>5.3</b>	13 <b>5.5</b>	14 <b>5.6</b>	15 <b>6.1</b>	16	17	5
MAY	18 <b>6.2</b>	19 <b>6.3</b>	20 <b>Review Quiz#2</b>	21 <b>7.1, 7.2</b>	22 <b>7.3</b>	23	24	6
MAY	25 <small>MEMORIAL DAY HOLIDAY</small>	26 <b>7.4</b>	27 <b>8.1</b>	28 <b>8.2</b>	29 <b>8.3</b>	30	31	7
JUN	1 <b>Review</b>	2 <b>Exam #2</b>	3 <b>Solution</b>	4 <b>9.1</b>	5 <small>Drop with "W"</small> <b>9.2</b>	6	7	8
JUN	8 <b>9.3</b>	9 <b>9.4</b>	10 <b>9.5</b>	11 <b>9.6</b>	12 <b>Review Quiz #3</b>	13	14	9
JUN	15 <b>10.1</b>	16 <b>10.2</b>	17 <b>10.3</b>	18 <b>10.4</b>	19 <b>Review</b>	20	21	10
JUN	22	23	24 <b>Final Exam 7:00AM-9:00</b>	25	26	27	28	11
JUN / JUL	29 <b>SUMMER BEGINS</b>	30	1	2	3	4	5	1

Sections	Problems
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.
5.5	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.
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.
8.4	2, 4, 5, 8, 9, 10, 12, 15, 16, 18, 35, 36.
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.