

Math 22, 10:00 a.m. -- 12:15p.m., MTWTh, Room: E34, Summer, 2019

SYLLABUS

Instructor: Dr. Kejian Shi
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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 **2 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: Homework (hw) will be assigned **every day in class** and will be collected three times, 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 **Thursday, August 8, 2019**, from **10:00am–12:15pm**. 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:	<u>Distribution</u>		<u>Scale</u>		
			Grade	Points	Percentage
Homework	60		A+	530-560	95%-100%
			A	502-529	90%-94%
			A-	490-501	88%-89%
Quizzes	100		B+	474-489	85%-87%
			B	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%
			F	0-307	0%-54%
	Total	560			

Tentative Schedule:

	MON	TUE	WED	THU	FRI	SAT	SUN
July	1 1.1, 1.2, 1.3	2 2.1, 2.2, 2.3	3 Review Quiz #1	4 Holiday	5	6	7
July	8 Solution 3.1, 3.2, 3.3	9 3.4, 4.1, 4.2	10 4.3, 4.4 Review	11 Questions and answers TEST #1	12	13	14
July	15 Solution 4.5, 4.6, 5.1	16 5.2, 5.3, 5.5	17 5.6, 6.1, 6.2	18 Review Quiz #2	19	20	21
July	22 Solution 6.3, 6.4	23 7.1, 7.2, 7.3	24 7.4, 8.1 Review	25 Questions and answers TEST #2	26	27	28
July / August	29 Solution 8.2, 8.3	30 9.1, 9.2, 9.3	31 9.4, 9.5, 9.6	1 Review Quiz #3	2	3	4
August	5 Solution 10.1, 10.2	6 10.3, 10.4	7 Review	8 FINAL EXAM 10:00AM-- 12:15	9	10	11

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.