Math 43-5, 9:30 a.m. --10:20 a.m. MTWThF, Room: E31, Fall, 2019

SYLLABUS

Instructor: Dr. Kejian Shi
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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 42 (with a grade of C or better), or equivalent
Textbook: *Precalculus with Limits*, 3rd Ed., by Larson
Materials: Graphing 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 **Tuesday**, **12/10/ 2019**, from **9:15am–11:15am**. Any student 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:

Distribution

Homework	60
Quizzes	100
Midterms	200
Final Exam	200
Total	560

Scale

Grade	Points	Percentage
A+	530-560	95%-100%
A	502-529	90%-94%
A-	490-501	88%-89%
B+	474-489	85%-87%
B	446-473	80%-84%
B-	434-445	78%-79%
C+	418-433	75%-77%
C	362-417	65%-74%
D+	334-361	60%-64%
D	322-333	58%-59%
D-	308-321	55%-57%
F	0-307	0%-54%

Tentative Schedule:

	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY	SUNDAY	Wk
SEP	23 INSTRUCTION BEGINS 7.1	24 7.1	25 7.3	26 7.3	27 7.5	28	29	1
SEP / OCT	30 7.5	1 8.1	2 8.1	3 Review	4 Quiz #1	5 Last Day to Add	6 Last Day to Drop with no Record	2
OCT	7 Census Day 8.2	8 8.2	9 8.3	10 8.3, 8.4	11 8.4	12	13	3
OCT	14 8.5	15 8.5	16 9.1	17 Review Hw/Proj. 1 Due	18 Last Day to Request P/NP Exam #1	19	20	4
OCT	21 Solution	22 9.2	23 9.2	24 9.3	25 9.3	26	27	5
OCT / NOV	28 9.4	29 9.4	30 9.5	31 Review	1 Quiz #2	2	3	6
NOV	4 10.6	5 10.7	6 10.8	7 10.8	8 10.9	9	10	7
NOV	11 VETERAN'S DAY NO CLASSES	12 10.9	13 11.1	14 Review Hw/Proj. 2 Due	15 Last Day to Drop with a W Exam #2	16	17	8
NOV	18 Solution	19 11.1	20 11.2	21 11.2	22 11.3	23	24	9
NOV	25 11.3	26 11.4	27 Review Quiz #3	28 THANKSGIVING NO CLASSES	29 THANKSGIVING NO CLASSES	30	1	10
NOV / DEC	2 11.4	3 Hyperbolic functions	4 Hyperbolic functions	5 Hyperbolic functions	6 Review Hw/Proj. 3 Due	7	8	11
	9	10 Final Exam 9:15AM-11:15	11	12	13	14	15	12
	12 weeks, 53 days of instruction							

Homework Problems:

Sections	Problems
	HW#1
7.1	5, 7, 9, 11, 15, 21, 23, 25, 27, 29
	31, 33, 35, 37, 41, 47, 49, 57, 59, 61, 69
7.3	7, 11, 15, 17, 19, 25, 27, 29, 37, 41
	45, 47, 49, 51, 53, 55, 59, 61, 63, 65, 67
7.5	5, 7, 9, 11, 13, 15, 19, 21, 29, 31
	33, 35, 47, 49, 51, 57, 61, 65, 67
8.1	9, 11, 13, 15, 17, 19, 21, 23, 25, 27, 29, 31 ,33, 35
	37, 39, 65, 67, 69, 71, 73, 85, 87, 93, 95, 99, 102(set up only), 103(set up only)
8.2	7, 8, 11, 15, 19, 21, 23, 25, 31, 33, 35
	39, 41, 43, 45, 47, 51, 55, 57, 63, 65, 67, 71
8.3	5, 11, 15, 19, 25, 31, 33, 35, 43, 45, 55, 61
8.4	17, 19, 27, 35, 39, 49, 63, 71, 77, 99
8.5	7, 17, 21, 29, 33, 35, 45, 49, 65
9.1	7, 11, 17, 21, 25, 27, 31, 33-36, 37, 39, 43, 45, 47, 49, 51, 53
	55, 57, 59, 63, 65, 67, 69, 73, 75, 77, 79, 81, 83, 85, 89, 93, 95, 97
	HW#2
9.2	5, 9, 11, 13, 19, 21, 27, 31, 35, 37, 39, 41, 45, 47
	51, 53, 57, 59, 61, 65-68, 69, 75, 77, 83, 84
9.3	5, 11, 15, 19, 23, 27, 29, 31, 41, 45, 47, 48, 49
	50, 55, 61, 63, 73, 77, 79, 81, 89
9.4	5, 7, 11, 15, 19, 23, 25, 27, 31, 37
	41, 47, 51, 53, 55, 59, 61, 63, 65, 69
9.5	5, 11, 15, 17, 19, 29, 39, 41, 45, 47, 53, 57, 61, 67, 71, 73
10.6	5, 7, 9, 11, 13, 15, 25, 29, 49, 51
	53, 54, 57, 58, 61, 63, 69, 73, 98
10.7	5, 7, 9, …, 33 (odd ones); 43, 45, …, 59 (odd ones);
	71, 73, …, 109(odd ones); 117, 119, …, 125(odd ones)
10.8	7, 9, …, 45(odd ones)
10.9	5, 9-14; 15, 17, 19, 21, 23, 25, 39, 41, 43, 45, 49, 53
	HW#3
11.1	9, 11, 13, 15, 19, 29, 33, 37, 39, 43, 47, 55, 57, 63, 65, 71, 73
11.2	7, 13, 17, 19, 23, 25, 31, 33, 35, 39, 41, 45, 47, 49, 53, 57, 61, 65
11.3	5, 7, 9, 11, 13, 15, 23, 29, 35, 37, 43, 45, 51, 55, 57
11.4	7, 9, 13, 19, 21, 23, 25, 29, 31, 35, 37, 53, 47, 53, 63
Handout	0c, 0d, 0e, 1b, 1e, 1j, 2, 3b, 3c, 3f, 4b, 4c, 4d, 5b, 5c, 5d, 6, 7b, 7c

Student Learning Outcome(s):

*Analyze, investigate, and evaluate linear systems, vectors, and matrices related to two or three dimensional geometric objects.

*Graph and analyze regions/curves represented by inequalities or trigonometric, polar, and parametric equations, including conic sections.

*Analyze, develop, and evaluate formulas for sequences and series; Justify those formulas by mathematical induction.