

Math 1B-25, 4:00 pm -- 6:15 pm, MW,

Room: S46,

Fall, 2019

SYLLABUS

Instructor: Dr. Kejian Shi
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Office: S-16A
Office Phone: (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 1A (with a grade of C or better), or equivalent
Textbook: *CALCULUS – Early Transcendentals* with Hyperbolic Functions 8th Ed. by Stewart and Larson
Materials: Graphing 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: **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 **4:00pm–6:00pm**. Any student missing the final will receive an F grade for the course.

Grading:		<u>Distribution</u>	<u>Grade</u>	<u>Scale</u> 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	

Integrity: Any type of cheating is not tolerated. Corresponding school rules will be followed.

Tentative Schedule:

	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY	SUNDAY	Wk
SEP	23 INSTRUCTION BEGINS 5.1, 5.2	24	25 5.3, 5.4	26	27	28	29	1
SEP / OCT	30 5.5	1	2 Review Quiz #1	3	4	5 Last Day to Add	6 Last Day to Drop with no Record	2
OCT	7 Census Day 3.11, 6.1	8	9 6.2, 6.3	10	11	12	13	3
OCT	14 6.3, 6.4	15	16 Review Hw/Proj. 1 Due Exam #1	17	18 Last Day to Request P/NP	19	20	4
OCT	21 Solution 6.5, 7.1	22	23 7.2, 7.3	24	25	26	27	5
OCT / NOV	28 7.3, 7.4	29	30 Review Quiz #2	31	1	2	3	6
NOV	4 7.5, 7.6	5	6 7.7, 7.8	7	8	9	10	7
NOV	11 VETERAN'S DAY NO CLASSES	12	13 Review Hw/Proj. 2 Due Exam #2	14	15 Last Day to Drop with a W	16	17	8
NOV	18 Solution 8.1, 8.2	18	20 8.3, 8.5	21	22	23	24	9
NOV / DEC	25 9.1, 9.2	26	27 Review Quiz #3	28 THANKSGIVING NO CLASSES	29 THANKSGIVING NO CLASSES	30	1	10
DEC	2 9.3, 9.4	3	4 Review Hw/Proj. 3 Due	5 9.4	6	7	8	11
DEC	9	10	11 Final Exam 4:00PM-6:00	12	13	14	15	12
12 weeks, 53 days of instruction								

Homework Problems:

Sections	Problems
	HW #1
5.1	1, 4, 7, 13, 21, 25, 27
5.2	1, 4, 7, 10, 17, 20, 23, 28, 30, 33, 37, 40, 56, 57, 64, 70
5.3	1, 4, 7, 10, 13, 16, 19, 22, 25, 28, 31, 34, 37, 40, 43, 59, 62
5.4	1, 4, 7, 10, 13, 16, 21, 24, 27, 30, 33, 36, 37, 39, 42, 45
5.5	1, 4, 7, 10, 13, 16, 19, 22, 25, 28, 31, 34, 37, 40, 43, 46, 53, 56, 59, 62, 65, 68, 71
3.11	1, 4, 7, 10, 13, 16, 19, 22, 25, 28, 31, 34, 37, 40, 43
6.1	1, 4, 7, 10, 13, 16, 19, 22, 25, 28
6.2	1, 4, 7, 10, 13, 16, 19, 22, 25, 28, 31, 34, 41, 48, 50, 60, 63, 66
6.3	1, 4, 7, 10, 13, 16, 19, 22, 25, 31, 37, 40, 47
6.4	1, 4, 7, 10, 13, 16, 19, 22, 24, 25, 28
	HW#2
6.5	1, 4, 7, 10, 13, 16, 19, 22, 25, 26
7.1	1, 4, 7, 10, 13, 16, 19, 22, 25, 28, 31, 34, 37, 40, 47, 50, 53, 61, 72
7.2	1, 4, 7, 10, 13, 16, 19, 22, 25, 28, 31, 34, 37, 40, 43, 46, 49
7.3	1, 2, 4, 5, 7, 8, 10, 11, 13, 14, 16, 17, 19, 20, 22, 23, 25, 26, 28, 29, 31, 32
7.4	1, 2, 3, 4, 5, 6, 7, 10, 13, 16, 19, 24, 27, 30, 34, 37, 59, 60, 63
7.5	1, 6, 11, 16, 21, 26, 31, 36, 41, 46, 51, 56, 61, 66, 71, 76, 81
7.6	1, 4, 7, 10, 13, 16, 19, 22, 25, 28, 31
7.7	1, 6, 10, 16, 21, 27
7.8	1, 2, 5, 8, 11, 14, 17, 20, 23, 26, 29, 32, 35, 38, 49, 51, 54, 59
	HW#3
8.1	1, 4, 7, 10, 13, 16, 19, 25, 33, 35, 39
8.2	1(a), 4(a), 7, 10, 13, 16, 27, 33, 35, 37
8.3	1, 4, 7, 10, 14, 22, 23, 25, 28, 30, 33, 35
8.5	1, 5, 6, 8
9.1	1, 4, 7, 10, 13
9.2	1, 4, 7, 10, 13, 21, 24
9.3	1, 4, 7, 10, 13, 16, 19, 22, 29, 32, 45, 46, 47
9.4	3, 5, 11, 13, 18

Student Learning Outcome(s):

*Analyze the definite integral from a graphical, numerical, analytical, and verbal approach, using correct notation and mathematical precision.

*Formulate and use the Fundamental Theorem of Calculus.

*Apply the definite integral in solving problems in analytical geometry and the sciences.