SYLLABUS

Instructor: Dr. Kejian Shi
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Office Hour: Tuesday, 10:30am-11:30am virtual office hour via zoom on canvas

Prerequisites: Math 1A (with a grade of C or better), or equivalent
Textbook: *CALCULUS – Early Transcendentals* 8th Ed. by James Stewart
Materials: Graphing calculator recommended

Attendance: This class is an **online class**. My daily lecture videos will be posted on the Canvas. Students are expected to watch and study the videos on every school day. Different people can watch at different time during the day. The videos can be watched multiple times. Questions will be answered through email. **It is the students' responsibility to drop by the appropriate deadline. Petitions to drop after the deadline 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: <u>**Three Quizzes**</u> (33, 33, and 34 points) will be given from **5:30pm-6:15pm** on the quiz day. No makeup quizzes. The lowest quiz score will be replaced by the average of the two highest quiz scores.

Midterms: <u>**Two midterm examinations**</u> (100 points each) will be given from **5:00pm-6:15pm** on the midterm exam day. No makeup tests. The lowest midterm score will be replaced by the percentage of the final exam if the final percentage is higher.

Final Exam: <u>**One**</u> comprehensive examination will be given from **4:00pm–6:00pm** on **Wednesday, December 8, 2021**. 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		Scale		
		Grade	Points	Percentage
		A+	473-500	95%-100%
Quizzes	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%

Tentative Schedule:

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

Homework Problems:

Sections	Problems
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
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
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.