SYLLABUS

Instructor: Dr. Kejian Shi
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Office Hour: All questions will be answered through email.

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: **Three Quizzes** (33, 33, and 34 points) will be given from **6:00pm-7:00pm** on the quiz day. No makeup quizzes. The lowest quiz score will be replaced by the average of the two highest quiz scores.

Midterms: **Two midterm examinations** (100 points each) will be given from **6:00pm-8:00pm** 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: **One comprehensive examination** will be given from **6:00pm–9:00pm** on **Wednesday, March 24, 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%
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Total	500		F	0-272	0%-54%

Tentative Schedule:

	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY	SUNDAY	Wk
Jan	4 INSTRUCTION BEGINS 5.1	5 5.1	6 5.2	7 5.2	8 5.3	9	10	1
Jan	11 5.3, 5.4	12 5.4	13 5.5	14 5.5	15 Quiz #1	16 Last Day to Add	17 Last Day to Drop with refund/credit, with no record.	2
Jan	18 MLK Holiday No Class	19 (Census Day) Solutions 3.11	20 6.1	21 6.2	22 6.2, 6.3	23	24	3
Jan	25 6.3	26 6.4	27 6.5	28 Review	29 Last day to request P/NP Exam #1	30	31	4
Feb	1 Solutions	2 7.1	3 7.1	4 7.1	5 7.2	6	7	5
Feb	8 7.2	9 7.3	10 7.3	11 Quiz #2	12 Lincoln's B-Day Holday No Class	13 President's Weekend	14	6
Feb	15 Washington's B-day Holiday No Class	16 Solutions 7.4	17 7.4	18 17.4	19 7.4	20	21	7
Feb	22 7.5, 7.6	23 7.7	24 7.7	25 Review	26 Last Day to drop with a W Exam #2	27	28	8
March	1 Solutions	2 7.8	3 7.8	4 8.1	5 8.2	6	7	9
March	8 8.3	9 8.3	10 8.5	11 9.1	12 Quiz #3	13	14	10
March	15 Solutions 9.2	16 9.3	17 9.3	18 9.4	19 Review	20	21	11
March	22	23	24 FINAL EXAM 6:00pm-9:00pm	25	26	27	28	12

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.