Math 1D-51Z **MTWThF** **Winter, 2023**

SYLLABUS

Instructor: Dr. Kejian Shi
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Office Hour: Wednesday, 10:00am-11:00am virtual office hour via zoom on canvas

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

Attendance: This class is an **online asynchronous class**. My daily lecture videos will be posted on the Canvas. Students are expected to watch and study the videos daily. Different people can watch at different times during the day. The videos can be watched multiple times. Questions will be answered during office hours or 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 **8:00pm-9:00pm** on the quiz day. No makeup quizzes. Quiz problems are similar to homework problems and lecture examples.

Midterms: **Two midterm examinations** (100 points each) will be given from **8:00pm-10:00pm** on the midterm exam day. No makeup except for extenuating circumstances assuming the student notifies the instructor as soon as the emergency arises.

Final Exam: **One comprehensive examination** will be given from **8:00pm-11:00pm** on **Wednesday, March 29, 2023**. 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:

Distribution

Quizzes	100
Midterms	200
Final Exam	200
Total	500

Scale

Grade	Points	Percentage
A+	473-500	95%-100%
A	448-472	90%-94%
A-	438-447	88%-89%
B+	423-437	85%-87%
B	398-422	80%-84%
B-	388-397	78%-79%
C+	373-387	75%-77%
C	323-372	65%-74%
D+	298-322	60%-64%
D	288-297	58%-59%
D-	273-287	55%-57%
F	0-272	0%-54%

Math 1D-51Z Tentative Schedule (Winter 2023):

Winter 2023

	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY	SUNDAY	Wk
Jan	9 INSTRUCTION BEGINS 14.1	10 14.2	11 14.3	12 14.3	13 14.4	14	15	1
Jan	16 M L K Holiday (No class)	17 14.4	18 14.5	19 14.6	20 Quiz #1 8:00pm-9:00pm	21 *Last Day to Add*	22 *Last Day to Drop without a W*	2
Jan	23 Census Day 14.6	24 14.7	25 14.7	26 14.8	27 15.1	28	29	3
Jan / Feb	30 15.2	31 15.2	1 15.3	2 Review	3 Exam #1 8:00pm-10:00pm	4	5	4
Feb	6 Solutions	7 15.4	8 15.4	9 15.5	10 15.6	11	12	5
Feb	13 15.6	14 15.7	15 15.8	16 Quiz #2 8:00pm-9:00pm	17 *Lincoln's B-Day* *Holday* (No class)	18 *President's Weekend*	19	6
Feb	20 *Washington's B-day Holiday* (No class)	21 15.9	22 15.9	23 16.1	24 16.2	25	26	7
Feb / March	27 16.2	28 16.3	1 16.3	2 Review	3 *Last day: drop with a W* Exam #2 8:00pm-10:00pm	4	5	8
March	6 Solutions	7 16.4	8 16.4	9 16.5	10 16.5	11	12	9
March	13 16.6	14 16.6	15 16.7	16 16.7	17 Quiz #3 8:00pm-9:00pm	18	19	10
March	20 16.8	21 16.8	22 16.9	23 16.9	24 Review	25	26	11
March / April	27	28	29 Final Exam 8:00pm-11:00pm	30	31	1	2	12

Sections	Problems
14.1	1, 4, 7, 10, 18, 21, 25, 31, 45, 48, 68
14.2	5, 8, 11, 14, 17, 20, 26, 29, 32, 35, 38, 41
14.3	1, 4, 7, 10, 15, 18, 21, 24, 27, 30, 33, 36, 39, 42, 45
14.3	48, 51, 54, 57, 60, 63, 66, 69, 72, 75, 78, 81, 84, 87
14.4	1, 4, 7, 11, 14, 17, 21, 24, 27, 30, 33, 36, 39, 42, 45
14.5	1, 4, 7, 10, 13, 16, 19, 22, 25, 28
14.5	31, 34, 37, 40, 43, 46, 49, 52, 55, 58
14.6	4, 7, 10, 13, 16, 19, 22, 25, 28, 41, 44, 51, 55
14.7	1, 4, 7, 10, 13, 16, 19, 22, 31, 34, 37, 43, 47, 50, 59
14.8	1, 4, 7, 10, 13, 16, 19, 22, 25, 30
15.1	1, 4, 7, 10, 13, 16, 19, 22, 25, 28, 31, 34, 37, 40, 47, 50
15.2	1, 4, 7, 10, 13, 16, 19, 22, 25, 28, 31
15.2	35, 37, 40, 45, 48, 51, 54, 57, 60, 62, 65, 68
15.3	1, 4, 6, 7, 10, 13, 16, 19, 22, 25, 29, 32, 34, 37, 40
15.4	1, 4, 7, 10, 13, 16, 19, 22, 28
15.5	1, 4, 7, 10, 13, 21, 24
15.6	2, 4, 7, 10, 13, 16, 19, 22, 25, 28
15.6	31, 34, 35, 37, 40, 43, 46, 48, 51, 54
15.7	1, 4, 6, 8, 9, 11, 15, 18, 21, 24, 27, 30
15.8	1, 4, 6, 8, 10, 13, 16, 18, 20, 23, 26, 29, 32, 35, 42, 48
15.9	1, 4, 7, 10, 11, 14, 16, 19, 22, 25, 27
16.1	1, 4, 7, 10, 13, 16, 21, 24, 25, 31, 34
16.2	1, 4, 7, 10, 13, 16, 19, 22, 25, 33, 36, 39, 42, 45, 48
16.3	1, 4, 7, 10, 13, 16, 19, 22, 24, 26, 29, 32, 35
16.4	1, 4, 7, 10, 11, 14, 17, 21, 24, 27
16.5	1, 4, 7, 10, 12, 15, 18, 21, 24, 27, 30, 33, 34
16.6	1, 4, 13, 16, 19, 22, 25, 33, 36, 39, 42, 45, 48, 51, 61, 62
16.7	1, 4, 7, 10, 13, 16, 19, 22, 25, 28, 31, 37, 40, 43, 46, 49
16.8	1, 4, 7, 10, 13, 16, 19, 20
16.9	1, 4, 7, 10, 13, 17, 19, 24, 26, 29

Student Learning Outcome(s):

*Graphically and analytically synthesize and apply multivariable and vector-valued functions and their derivatives, using correct notation and mathematical precision.

*Use double, triple and line integrals in applications, including Green's Theorem, Stokes' Theorem and Divergence Theorem.

*Synthesize the key concepts of differential, integral and multivariate calculus.

Office Hours:

M,T,W,TH	10:00 AM	11:00 AM	Zoom