Math 1D-53Z **Fall, 2025**

SYLLABUS

Instructor: Dr. Kejian Shi
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Office Hour: Wednesday, 1:40pm-2:40pm virtual office hour via zoom on canvas

Prerequisites: Math 1C (with a grade of C or better), or equivalent
Textbook: *CALCULUS – Early Transcendentals*, 9th E (California Edition), 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 times during the day. The videos can be watched multiple times. Questions will be answered during the office hours or through emails.

Homework: **Six homework sets** will be collected on canvas, each on **the test (Quiz and Exam) days** (10 points for each set). No late hws will be accepted. One lowest hw score will be replaced by 10. 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 45-minute Quizzes** (33, 33, and 34 points) will be given **on canvas**. No makeup quizzes. One lowest quiz score will be replaced by the average of the two highest quiz scores. Quiz problems are similar to homework problems and lecture examples.

Midterms: **Two 60-minute midterm examinations** (100 points each) will be given **on canvas**. No makeup midterms. One lowest midterm score will be replaced by the percentage of your final exam score, if the percentage is higher.

Final Exam: **One 120-minute comprehensive examination** will be given **on canvas**, on **Tuesday, 12/9/2025**. Anyone missing the final will receive an F grade for the course.

Test time limits: Each test (Quiz, Midterm and Final) will be available in a 24-hour time window from 12:00am to11:59pm on the test day. Once you open the test, you need to successfully submit your solutions within the given time limits.

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+	529-560	95%-100%
A	501-528	90%-94%
A-	490-500	88%-89%
B+	473-489	85%-87%
B	445-472	80%-84%
B-	434-444	78%-79%
C+	417-433	75%-77%
C	361-416	65%-74%
D+	333-360	60%-64%
D	322-332	58%-59%
D-	305-321	55%-57%
F	0-304	0%-54%

Math 1D-53Z Tentative Schedule (Winter 2025):

	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY	SUNDAY	Wk
SEP	22 INSTRUCTION BEGINS 14.1	23 14.2	24 14.3	25 14.3	26 14.4	27	28	1
SEP / OCT	29 14.4	30 14.5	1 14.6	2 14.6	3 Quiz #1	4 Last Day to Add	5 Last Day to Drop with no Record	2
OCT	6 Census Day 14.7	7 14.7	8 14.8	9 15.1	10 15.2	11	12	3
OCT	13 15.2	14 15.3	15 15.4	16 Review	17 Exam #1	18	19	4
OCT	20 Solution	21 15.4	22 15.5	23 15.6	24 15.6	25	26	5
OCT / NOV	27 15.7	28 15.8	29 15.9	30 15.9	31 Quiz #2	1	2	6
NOV	3 16.1	4 16.2	5 16.2	6 16.3	6 16.3	8	9	7
NOV	10 16.4	11 VETERAN'S DAY NO CLASSES	12 16.4	13 Review	14 Last Day to Drop a W Exam #2	15	16	8
NOV	17 Solution	18 16.5	19 16.5	20 16.6	21 16.6	22	23	9
NOV / DEC	24 16.7	25 16.7	26 Quiz #3	27 THANKSGIVING NO CLASSES	28 THANKSGIVING NO CLASSES	29	30	10
DEC	1 16.8	2 16.8	3 16.9	4 16.9	5 Review	6	7	11
DEC	8	9 Final Exam	10	11	12	13	14	12
	12 weeks, 53 days of instruction							

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):

• Apply analytic, graphical and numerical methods to study 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	1:30 PM - 2:30 PM	S16-A
T	2:00 PM - 3:00 PM	Canvas
W	1:40 PM - 2:40 PM	Canvas
TH	2:00 PM - 3:00 PM	Canvas