

Math 1D-26Z,

MW,

Winter, 2022

SYLLABUS

Instructor: Dr. Kejian Shi
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Office Hour: Tuesday, 11:00am-12:00noon 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 class**. My daily lecture videos will be posted on the Canvas. Students are expected to watch and study the videos before each class. The videos can be watched multiple times. Questions will be answered during the class time and office hours. **(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 during the last 40 minutes of the class on 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 during the last 60 minutes of the class time 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 **4:00pm-6:00pm** on **Wednesday, March 23, 2022**. 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:	<u>Distribution</u>		<u>Scale</u>		
			Grade	Points	Percentage
Quizzes	100		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%
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%
			F	0-272	0%-54%
	Total	500			

Math 1D-26Z Tentative Schedule (Winter 2022):

Winter 2022								
	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY	SUNDAY	Wk
Jan	3 INSTRUCTION BEGINS 14.1, 14.2	4	5 14.3, 14.4	6	7	8	9	1
Jan	10 14.5, 14.6	11	12 14.7 Quiz #1	13	14	15 <i>Last Day to Add</i>	16 <i>Last Day to Drop with refund/credit, with no record.</i>	2
Jan	17 <i>Last day to drop without a W M L K Holiday</i>	18 Census Day	19 14.8, 15.1	20	21	22	23	3
Jan	24 15.2, 15.3 Review	25	26 Exam #1	27	28 <i>Last day to request P/NP</i>	29	30	4
Jan / Feb	31 Solutions 15.4, 15.5	1	2 15.6, 15.7	3	4	5	6	5
Feb	7 15.8, 15.9	8	9 16.1 Quiz #2	10	11	12	13	6
Feb	14 16.2, 16.3	15	16 16.3, 16.4 Review	17	18 <i>Lincoln's B-Day Holiday</i>	19 <i>President's Weekend</i>	20	7
Feb	21 <i>Washington's B-day Holiday</i>	22	23 Exam #2	24	25 <i>Last Day to drop with a W</i>	26	27	8
Feb / March	28 Solutions 16.5	1	2 16.6	3	4	5	6	9
March	7 16.7	8	9 16.8 Quiz #3	10	11	12	13	10
March	14 16.9	15	16 Review	17	18	19	20	11
March	21	22	23 FINAL EXAM 4:00pm-6:00pm	24	25	26	27	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.