Math 1D-31 **MW, 1:30pm-3:45pm, E33** **Spring, 2024**

SYLLABUS

Instructor: Dr. Kejian Shi
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Office Hour: Wednesdays, 9:50am-10:50am (Room S16-A)

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 **in-person class**. Students are expected to attend all classes on time. Students who are absent more than **two times** may be dropped from the class. However, **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. Homework assignments are due on the test (quiz or midterm) days. Each collection counts 10 points, the total is 60 points.

Quizzes: **Three Quizzes** (33, 33, and 34 points) will be given in class 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 in class 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 **1:45pm–3:45pm** on **Monday, June 24, 2024**. (This is school scheduled final exam time. It cannot be changed by the instructor.) Any students 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

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%

Tentative Schedule:

	MON	TUE	WED	THUR	FRI	SAT	SUN	Wk
APL	8 **14.1, 14.2**	9	10 **14.3, 14.4**	11	12	13	14	1
APL	15 **14.5, 14.6**	16	17 **14.7** **Quiz #1**	18	19	20 Last day to add	21 Last day to drop with no record	2
APL	22 **Solutions** **14.8, 15.1**	23	24 **15.2**	25	26	27	28	3
APL / MAY	29 **15.3**	30	1 **Review** **Exam #1**	2	3	4	5	4
MAY	6 **Solutions** **15.4**	7	8 **15.5, 15.6**	9	10	11	12	5
MAY	13 **15.7**	14	15 **15.8** **Quiz #2**	16	17	18	19	6
MAY	20 **Solutions** **15.9, 16.1**	21	22 **16.2, 16.3**	23	24	25	26	7
MAY / JUN	27 Memorial Day **Holiday**	28	29 **Review** **Exam #2**	30	31 Last day to drop with a "W"	1	2	8
JUN	3 **Solutions** **16.4, 16.5**	4	5 **16.5, 16.6**	6	7	8	9	9
JUN	10 **16.7, 16.8**	11	12 **16.9** **Quiz #3**	13	14	15	16	10
JUN	17 **Review**	18	19 Juneteenth Day **Holiday**	20	21	22	23	11
JUN	24 **Final Exam** **1:45pm-3:45pm**	25	26	27	28	29	30	12
JUL	1 SUMMER BEGINS	2	3	4	5	6	7	1

Homework:

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	09:50 AM	10:50 AM	In-Person	S16-A
W	09:50 AM	10:50 AM	In-Person	S16-A
T	12:20 PM	01:20 PM	In-Person	S16-A
TH	10:20 AM	11:20 AM	Zoom	
TH	11:20 AM	12:20 PM	Zoom	
TH	11:20 AM	12:20 PM	Zoom	