SYLLABUS

Instructor:	Dr. Kejian Shi
e-mail:	shikejian@fhda.edu
Office Hour:	All questions will be answered through email

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 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 dead line 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: <u>**Three**</u> **Quizzes** (33, 33, and 34 points) will be given from **6:00pm-7:00** on the quiz day. No makeup quizzes. Quiz problems are similar to homework problems and lecture examples.

Midterms: <u>**Two**</u> **midterm examinations** (100 points each) will be given from **6:00pm-8:00** 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: <u>**One**</u> **comprehensive examination** will be given from **6:00pm-9:00** on **Tuesday, Dec. 8, 2020**. 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		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%
	---------	D-	273-287	55%-57%
Total	500	F	0-272	0%-54%

Math 1D-5 Tentative Schedule (Fall 2020):

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

*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.