Math 12-50Z,   **MTWThF,**   **Fall, 2021**

SYLLABUS

Instructor: Dr. Kejian Shi
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Office Hour: Monday, 10:30am-11:30am virtual office hour via zoom on canvas

Prerequisites: Math 11 or 41 (with a grade of C or better)
Textbook: *CALCULUS and its applications*, 11th Edition, by Bittinger etc.
Materials: A scientific 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 **Monday, Dec. 6, 2021**. 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			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%
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Total	500		F	0-272	0%-54%

Math 12-50Z Tentative Schedule (Fall 2021):

	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY	SUNDAY	Wk
SEP	20 INSTRUCTION BEGINS R.3	21 1.1	22 1.2	23 1.3	24 1.4	25	26	1
SEP / OCT	27 1.5	28 1.6	29 1.7	30 Review	1 Quiz #1	2 Last Day to Add	3 Last Day to Drop with no Record	2
OCT	4 Census Day 1.8	5 2.1	6 2.2	7 2.3	8 2.4	9	10	3
OCT	11 2.5	12 2.6	13 2.7	14 Review	15 Exam #1	16	17	4
OCT	18 Solution	19 2.8	20 3.3	21 3.4	22 3.5	23	24	5
OCT	25 3.6	26 4.1	27 4.2	28 Review	29 Quiz #2	30	31	6
NOV	1 4.3	2 4.4	3 4.5	4 4.6	5 4.7	6	7	7
NOV	8 5.1	9 5.2	10 Review	11 VETERAN'S DAY NO CLASSES	12 Last Day to Drop with a W Exam #2	13	14	8
NOV	15 Solution	16 5.3	17 5.6	18 5.7	19 6.1	20	21	9
DEC	22 6.2	23 Review	24 Quiz #3	25 THANKSGIVING NO CLASSES	26 THANKSGIVING NO CLASSES	27	28	10
NOV / DEC	29 6.3	30 6.4	1 6.5	2 Review	3 Review	4	5	11
DEC	6 Final Exam	7	8	9	10	11	12	12

12 weeks, 53 days of instruction

Sections	Problems
R.3	36, 39, 46, 49, 53
1.1	11, 15-22, 54, 59, 65, 68
1.2	1, 5, 9, …, 69 (every other odd)
1.3	1, 6, 11, 18, 25, 28, 30, 33, 34
1.4	1, 4, 7, 10, 13, 16, 19, 22, 25, 28, 31, 34
1.5	1, 5, 9, …, 65 (every other odd)
1.6	5, 12, 15, 20, 25, 35, 40, 46, 113, 117
1.7	1, 4, 7, …, 73 (every third)
1.8	1, 4, 7, …, 46 (every third)
2.1	1, 4, 7, …, 34 (every third)
2.2	1, 5, 9, …, 45 (every other odd)
2.3	2, 6, 14, 18, 28, 32, 42, 48, 54
2.4	7, 10 , 13, …, 34 (every third) and 49, 52, 55, 61
2.5	7, 10, 15, 18, 20, 22, 38
2.6	4, 5, 6, 28, 31, 37, 40, 45, 48, 53
2.7	1, 4, 8, 10
2.8	4, 10, 13, 19, 24, 29, 34, 39, 45
3.3	4, 7, 21, 41
3.4	18, 22, 24, 41
3.5	1, 4, 7, 10, 13, 16, 19, 22, 25, 28, 31, 34
3.6	1, 4, 7, 11, 13, 17, 19
4.1	1, 4, 7, …, 58 (every third)
4.2	1, 4, 7, …, 34 (every third) and 36
4.3	1, 4, 7, …, 58 (every third)
4.4	1, 4, 7, …, 43 (every third)
4.5	1, 5, 9, …, 57 (every other odd) and 79, 83, 85
4.6	1, 4, 7, …, 37 (every third)
4.7	1, 4, 7, …, 28 (every third)
5.1	1, 4, 7, 10, 13
5.2	1, 4, 7, 10, 13, 16, 19
5.3	1, 4, 7, …, 28 (every third)
5.4	1, 4, 7, …, 28 (every third)
5.5	1, 4, 7, …, 31 (every third)
5.6	1, 4, 7, …, 31 (every third)
5.7	1, 4, 7, …, 46 (every third)
6.1	1, 4, 7, 9, 12
6.2	1, 4, 7, …, 40 (every third)
6.3	1, 4, 7, …, 19 (every third)
6.4	1, 4, 7, 10
6.5	1, 4, 7, 10, 13, 16, 19, 20

Student Learning Outcome(s):

*Use correct notation and mathematical precision in the evaluation and interpretation of derivatives and integrals.

*Evaluate, solve, interpret and communicate business and social science applications using appropriate differentiation and integration methodologies.