

SYLLABUS

Instructor: Dr. Kejian Shi
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Office Hour: Monday, 10:00am-11:00am 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 before each class. The videos can be watched multiple times. Questions will be answered during the office hours or through emails. **(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 from 8:00pm-9:00pm on quiz days. Quiz problems are like homework problems and lecture examples. 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 from 8:00pm-10:00pm on the midterm exam days. No makeup exams. 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 **8:00pm-11:00pm on Monday, Dec. 12, 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%
			D	288-297	58%-59%
Final Exam	200		D-	273-287	55%-57%
			F	0-272	0%-54%
		Total	500		

Math 12-50Z Tentative Schedule (Fall 2022):

	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY	SUNDAY	Wk
SEP / OCT	26 INSTRUCTION BEGINS R.3	27 1.1	28 1.2	29 1.3	30 1.4	1	2	1
OCT	3 1.5	4 1.6	5 1.7	6 Review	7 Quiz #1 8:00pm-9:00pm	8 Last Day to Add	9 Last Day to Drop with no Record	2
OCT	10 Census Day	11	12	13	14 2.4	15	16	3
OCT	17 2.5	18 2.6	19 2.7	20 Review	21 Exam #1 8:00pm-10:00pm	22	23	4
OCT	24 Solution	25 2.8	26 3.3	27 3.4	28 3.5	29	30	5
OCT / NOV	31 3.6	1 4.1	2 4.2	3 Review	4 Quiz #2 8:00pm-9:00pm	5	6	6
NOV	7 4.3	8 4.4	9 4.5	10 4.6	11 VETERAN'S DAY NO CLASSES	12	13	7
NOV	14 4.7	15 5.1	16 5.2	17 Review	18 Last Day to Drop a W Exam #2 8:00pm-10:00pm	19	20	8
NOV	21 Solution	22 5.3	23 5.6	24 THANKSGIVING NO CLASSES	25 THANKSGIVING NO CLASSES	26	27	9
NOV / DEC	28 5.7	29 6.1	30 6.2	1 Review	2 Quiz #3 8:00pm-9:00pm	3	4	10
DEC	5 6.3	6 6.4	7 6.5	8 Review	9 Review	10	11	11
DEC	12 Final Exam 8:00pm-11:00pm	13	14	15	16	17	18	12
12 weeks, 53 days of instruction								

Homework problems:

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.

Office Hours:

Zoom	M	10:00 AM	11:00 AM
Zoom	T	10:00 AM	11:00 AM
Zoom	TH	10:00 AM	11:00 AM
Zoom	W	10:00 AM	11:00 AM