

SYLLABUS

Instructor: Dr. Kejian Shi
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Office Hour: Mondays: 9:30am-10:30am 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 follow the schedule to watch and study the videos. The videos can be watched multiple times. Questions will be answered during the office hours or through email. **(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 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 from **8:00pm-10:00pm** 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 **8:00pm-11:00pm** on **Tuesday, June 21, 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:	Distribution		Scale		
			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			

Tentative Schedule:

	MON	TUE	WED	THUR	FRI	SAT	SUN	Wk
APL	4 District Flex Day	5 Division/Dpt Flex Day	6 1.1	7 1.2	8 1.3	9	10	1
APL	11 1.4	12 1.5	13 1.6	14 1.7	15 Quiz #1 8:00pm-9:00pm	16 Last day to add	17 Last day to drop with no record	2
APL	18 Solutions 1.8	19 2.1	20 2.2	21 2.3	22 2.4	23	24	3
APL / MAY	25 2.5	26 2.6	27 2.7	28 Review	29 Request P/NP Exam #1 8:00pm-10:00pm	30	1	4
MAY	2 Solutions	3 3.3	4 3.4	5 3.5	6 3.6	7	8	5
MAY	9 4.1	10 4.2	11 4.3	12 4.4	13 Quiz #2 8:00pm-9:00pm	14	15	6
MAY	16 Solutions 4.5	17 4.5	18 4.6	19 4.6	20 4.7	21	22	7
MAY	23 5.1	24 5.2	25 5.3	26 Review	27 Drop with "W" Exam #2 8:00pm-10:00pm	28	29	8
MAY / JUN	30 Memorial Day Holiday	31 Solutions	1 5.4	2 5.5	3 5.6	4	5	9
JUN	6 5.7	7 6.1	8 6.2	9 6.3	10 Quiz #3 8:00pm-9:00pm	11	12	10
JUN	13 Solutions 6.4	14 6.5	15 6.6	16 Review	17 Review	18	19	11
JUN	20 Juneteenth Day Holiday	21 Final Exam 8:00pm-11:00pm	22	23	24	25	26	12
JUN / JUL	27 SUMMER BEGINS	28	29	30	1	2	3	1

Homework Problems:

Sections	Problems
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
6.6	1, 4, 7, 10, 13

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.