Math 12-61Z **Fall, 2023**

SYLLABUS

Instructor: Dr. Kejian Shi
e-mail: shikejian@fhda.edu
Office Hour: Friday, 11:30am-12:30pm 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 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-8:45pm** 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-9:00pm** 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-10:00pm** on **Wednesday, December 13, 2023**. 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

Quizzes	100
Midterms	200
Final Exam	200
Total	500

Scale

Grade	Points	Percentage
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%
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%
D-	273-287	55%-57%
F	0-272	0%-54%

Math 12-61Z Tentative Schedule (Fall 2023):

	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY	SUNDAY	Wk
SEP / OCT	25 INSTRUCTION BEGINS R.3	26 1.1	27 1.2	28 1.3	29 1.4	30	1	1
OCT	2 1.5	3 1.6	4 1.7	5 Review	6 Quiz#1 8:00pm-8:45pm	7 Last Day to Add	8 Last Day to Drop with no Record	2
OCT	9 Census Day 1.8	10 2.1	11 2.2	12 2.3	13 2.4	14	15	3
OCT	16 2.5	17 2.6	18 2.7	19 Review	20 Exam #1 8:00pm-9:00pm	21	22	4
OCT	23 Solutions	24 2.8	25 3.3	26 3.4	27 3.5	28	29	5
OCT / NOV	30 3.6	31 4.1	1 4.2	2 Review	3 Quiz#2 8:00pm-8:45pm	4	5	6
NOV	6 4.3	7 4.4	8 4.5	9 4.6	10 VETERAN'S DAY NO CLASSES	11	12	7
NOV	13 4.7	14 5.1	15 5.2	16 Review	17 Last Day to Drop / W Exam #2 8:00pm-9:00pm	18	19	8
NOV	20 Solutions	21 5.3	22 5.6	23 THANKSGIVING NO CLASSES	24 THANKSGIVING NO CLASSES	25	26	9
NOV / DEC	27 5.7	28 6.1	29 6.2	30 Review	1 Quiz#3 8:00pm-8:45pm	2	3	10
DEC	4 6.3	5 6.4	6 6.5	7 Review	8 Review	9	10	11
DEC	11	12	13 Final Exam 8:00pm-10:00pm	14	15	16	17	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:

T	09:30 AM	10:30 AM	In-Person	S-16A
W	09:30 AM	10:30 AM	In-Person	S16-A
F	11:30 AM	12:30 PM	Canvas Online	
TH	09:30 AM	10:30 AM	In-Person	S-16A
F	10:30 AM	11:30 AM	Canvas Online	