

## SYLLABUS

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

**Prerequisites:** Math 1B (with a grade of C or better), or equivalent  
**Textbook:** *CALCULUS – Early Transcendentals*, the 8<sup>th</sup> Ed. by James Stewart  
**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 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 **6:00pm-7:00pm** 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 **6:00pm-8:00pm** 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 **6:00pm-9:00pm** on **Wednesday, March 24, 2021**. Any student missing the final will receive an F grade for the course.

**Integrity:** Any type of cheating is not tolerated. Corresponding school rules will be followed.

<b>Grading:</b>	<u>Distribution</u>	<u>Scale</u>		
		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%
	Total		500	

Tentative Schedule:

Winter 2021								
	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY	SUNDAY	Wk
Jan	4 INSTRUCTION BEGINS 10.1	5	6	7	8	9	10	1
Jan	11 10.4	12 11.1	13 11.1	14 11.2	15 Quiz #1	16 <i>Last Day to Add</i>	17 <i>Last Day to Drop with refund/credit, with no record.</i>	2
Jan	18 ML K Holiday No Class	19 (Census Day) Solutions 11.2	20 11.3	21 11.3, 11.4	22 11.4	23	24	3
Jan	25 11.5	26 11.5, 11.6	27 11.6	28 Review	29 <i>Last day to request P/NP Exam #1</i>	30	31	4
Feb	1 Solutions	2 11.7	3 11.8	4 11.8	5 11.9	6	7	5
Feb	8 11.9	9 11.9	10 11.10	11 Quiz #2	12 <i>Lincoln's B-Day Holiday No Class</i>	13 <i>President's Weekend</i>	14	6
Feb	15 <i>Washington's B-day Holiday No Class</i>	16 Solutions 11.10	17 11.11	18 17.4	19 17.4	20	21	7
Feb	22 12.1	23 12.2	24 12.2, 12.3	25 Review	26 <i>Last Day to drop with a W Exam #2</i>	27	28 <i>Last day to file Winter degree or certificate</i>	8
March	1 Solutions	2 12.3	3 12.4	4 12.4	5 12.5	6	7	9
March	8 12.5	9 12.6	10 13.1	11 13.2	12 Quiz #3	13	14	10
March	15 Solutions 13.3	16 13.3	17 13.4	18 13.4	19 Review	20	21	11
March	22	23	24 FINAL EXAM 6:00pm-9:00pm	25	26	27	28	12

**Homework Problems:**

<b>Sections</b>	<b>Problems</b>
10.1	3, 5, 11, 13, 19, 21, 37
10.2	3, 5, 7, 11, 13, 15, 17, 29, 31, 33, 37, 39, 43, 49, 51, 57, 61, 65
10.3	7, 9, 11, 15, 17, 23, 25, 29, 33, 37, 39, 55, 57, 61, 63
10.4	1, 3, 9, 13, 17, 21, 23, 25, 27, 29, 31, 35, 37, 39, 41, 45
11.1	5, 7, 9, 11, 13, 17, 19, 23, 27, 33, 37, 45, 49, 51, 57, 59, 65, 70, 73, 75, 77, 79, 81
11.2	5, 9, 11, 15, 19, 23, 29, 33, 37, 39, 41, 43, 45, 51, 57, 59, 61, 67, 75
11.3	2, 3, 7, 11, 15, 17, 21, 29, 35, 37, 39
11.4	1, 3, 5, 7, 9, 11, 15, 19, 23, 27, 29, 31, 33, 35, 41
11.5	3, 7, 9, 13, 17, 21, 23, 25, 27
11.6	1, 3, 5, 7, 9, 13, 19, 25, 29, 31, 37, 39, 43
11.7	1, 3, 5, 7, 9, 11, 13, 15, 17, 19, 21, 23, 25, 27, 29
11.8	5, 7, 11, 15, 19, 23, 29, 30, 32, 35
11.9	3, 5, 7, 9, 13, 15, 19, 25, 27, 29, 31, 34, 37
11.10	4, 5, 9, 11, 15, 21, 25, 31, 33, 35, 39, 53, 55, 57, 59, 61, 63
11.11	5, 7, 9, 13, 19, 27
17.4	1, 3, 5, 7, 9, 11
12.1	3, 5, 9, 11, 13, 15, 17, 23, 41, 45, 47
12.2	3, 5, 7, 11, 13, 19, 21, 25, 26, 27, 29, 31, 33, 37, 41, 45, 47
12.3	3, 7, 9, 13, 15, 19, 23, 27, 29, 33, 39, 43, 47, 49, 51, 55, 57
12.4	3, 7, 9, 11, 13, 17, 19, 23, 27, 29, 31, 33, 35, 37, 39, 43, 45
12.5	7, 11, 13, 15, 19, 21, 23, 25, 27, 31, 33, 35, 37, 39, 41, 45, 49, 51, 55, 57, 59, 64, 65, 67, 71, 73
12.6	3, 5, 7, 9, 11, 15, 17, 19, 21, 28, 35, 37
13.1	1, 3, 5, 7, 11, 13, 15, 17, 27, 29, 33, 35, 37, 42, 43, 45, 49
13.2	3, 5, 7, 11, 13, 17, 19, 21, 23, 25, 33, 35, 37, 41
13.3	3, 5, 7, 11, 13, 17, 19, 21, 25, 27, 29, 30, 31, 37, 43, 47, 49, 53, 57
13.4	3, 5, 7, 9, 13, 15, 17, 19, 22, 23, 25

**Student Learning Outcome(s):**

\*Graphically, analytically, numerically and verbally analyze infinite sequences and series from the perspective of convergence, using correct notation and mathematical precision.

\*Apply infinite sequences and series in approximating functions.

\*Synthesize and apply vectors, polar coordinate system and parametric representations in solving problems in analytic geometry, including motion in space.