

## SYLLABUS

**Instructor:** Dr. Kejian Shi  
**e-mail:** shikejian@fhda.edu  
**Office Hour:** Tuesdays: 9:30am-10:30am virtual office hour via zoom on canvas

**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 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 type of cheating is 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 <b>District Flex Day</b>	5 <b>Division/Dpt Flex Day</b>	6 <b>10.1</b>	7 <b>10.2</b>	8 <b>10.2</b>	9	10	1
APL	11 <b>10.3</b>	12 <b>10.3</b>	13 <b>10.4</b>	14 <b>11.1</b>	15 <b>Quiz #1 8:00pm-9:00pm</b>	16 Last day to add	17 Last day to drop with no record	2
APL	18 <b>Solutions 11.1</b>	19 <b>11.2</b>	20 <b>11.2</b>	21 <b>11.3</b>	22 <b>11.3, 11.4</b>	23	24	3
APL / MAY	25 <b>11.4</b>	26 <b>11.5</b>	27 <b>11.5, 11.6</b>	28 <b>Review</b>	29 Request P/NP <b>Exam #1 8:00pm-10:00pm</b>	30	1	4
MAY	2 <b>Solutions</b>	3 <b>11.6</b>	4 <b>11.7</b>	5 <b>11.8</b>	6 <b>11.8</b>	7	8	5
MAY	9 <b>11.9</b>	10 <b>11.9</b>	11 <b>11.9</b>	12 <b>11.10</b>	13 <b>Quiz #2 8:00pm-9:00pm</b>	14	15	6
MAY	16 <b>Solutions 11.10</b>	17 <b>11.11</b>	18 <b>17.4</b>	19 <b>17.4</b>	20 <b>12.1</b>	21	22	7
MAY	23 <b>12.2</b>	24 <b>12.2, 12.3</b>	25 <b>12.3</b>	26 <b>Review</b>	27 Drop with "W" <b>Exam #2 8:00pm-10:00pm</b>	28	29	8
MAY / JUN	30 <b>Memorial Day Holiday</b>	31 <b>Solutions</b>	1 <b>12.4</b>	2 <b>12.4</b>	3 <b>12.5</b>	4	5	9
JUN	6 <b>12.5</b>	7 <b>12.6</b>	8 <b>13.1</b>	9 <b>13.2</b>	10 <b>Quiz #3 8:00pm-9:00pm</b>	11	12	10
JUN	13 <b>Solution 13.3</b>	14 <b>13.3</b>	15 <b>13.4</b>	16 <b>13.4</b>	17 <b>Review</b>	18	19	11
JUN	20 Juneteenth Day <b>Holiday</b>	21 <b>Final Exam 8:00pm-11:00pm</b>	22	23	24	25	26	12
JUN / JUL	27 <b>SUMMER BEGINS</b>	28	29	30	1	2	3	1

**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.