

SYLLABUS

Instructor: Dr. Kejian Shi
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Office Hour: **MTWTh:** 10:30 --11:00 a.m., 1:30 p.m. – 2:00, and **F:** 10:30 --11:00 a.m. or by appointment

Prerequisites: Math 1B (with a grade of C or better), or equivalent
Textbook: *CALCULUS – Early Transcendentals*, the 8th Ed. by James Stewart
Materials: A scientific calculator recommended

Attendance: Students are expected to attend all classes on time. Students who are absent more than **3 times** may be dropped from the class. However, **it is the students’ responsibility to drop by the appropriate deadline. Petitions to drop after the dead line will not be considered by the instructor.**

Homework: **Three Homework sets** will be collected, each on **the examination days** (20 points for each collection). No late hws will be accepted. Hw is the key to success in this class. Plan to devote a minimum of **TWO hours** to hw for each class hour.

Quizzes: **Three Quizzes** (33, 33, and 34 points) will be given in class. No makeup quizzes. Quiz problems are similar to homework problems and lecture examples.

Midterms: **Two one-class-hour midterm examinations** (100 points each) will be given in class. No makeup except for extenuating circumstances assuming the student notifies the instructor as soon as the emergency arises.

Final Exam: **One two-hour comprehensive examination** will be given on **Monday, 12/9/ 2019**, from **11:30am–1:30pm**. 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:		<u>Distribution</u>	<u>Scale</u>		
			Grade	Points	Percentage
Homework	60		A+	530-560	95%-100%
			A	502-529	90%-94%
			A-	490-501	88%-89%
Quizzes	100		B+	474-489	85%-87%
			B	446-473	80%-84%
			B-	434-445	78%-79%
Midterms	200		C+	418-433	75%-77%
			C	362-417	65%-74%
			D+	334-361	60%-64%
Final Exam	200		D	322-333	58%-59%
			D-	308-321	55%-57%
		-----	F	0-307	0%-54%
	Total	560			

Tentative Schedule:

	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY	SUNDAY	Wk
SEP	23 INSTRUCTION BEGINS 10.1	24 10.2	25 10.2	26 10.3	27 10.3	28	29	1
SEP / OCT	30 10.4	1 11.1	2 11.1	3 11.2	4 Review Quiz #1	5 Last Day to Add	6 Last Day to Drop with no Record	2
OCT	7 Census Day 11.2	8 11.3	9 11.3, 11.4	10 11.4	11 11.5	12	13	3
OCT	14 11.5, 11.6	15 11.6	16 11.7	17 Review Hw/Proj. 1 Due	18 Last Day to Request P/NP Exam #1	19	20	4
OCT	21 Solution	22 11.8	23 11.8	24 11.9	25 11.9	26	27	5
OCT / NOV	28 11.9	29 11.10	30 11.10	31 11.11	1 Review Quiz #2	2	3	6
NOV	4 17.4	5 17.4	6 12.1	7 12.2	8 12.2, 12.3	9	10	7
NOV	11 VETERAN'S DAY NO CLASSES	12 12.3	13 12.4	14 Review Hw/Proj. 2 Due	15 Last Day to Drop with a W Exam #2	16	17	8
NOV	18 Solution	19 12.4	20 12.5	21 12.5	22 12.6	23	24	9
NOV / DEC	25 13.1	26 13.2	27 Review Quiz #3	28 THANKS GIVING NO CLASSES	29 THANKS GIVING NO CLASSES	30	1	10
DEC	2 13.3	3 13.3	4 13.4	5 13.4	6 Review Hw/Proj. 3 Due	7	8	11
DEC	9 Final Exam 11:30AM-1:30	10	11	12	13	14	15	12
12 weeks, 53 days of instruction								

Homework Problems:

Sections	Problems
	HW #1
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
	HW#2
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
	HW#3
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.