Math 1C-9, 11:30 a.m. --12:20 p.m. MTWThF, Room: E31, Winter, 2020

SYLLABUS

Instructor: Dr. Kejian Shi
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Office & Phone: S-16A, (408)864-8481
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. **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, 3/23/2020**, 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:

Distribution

Attendance	40
Homework	60
Quizzes	100
Midterms	200
Final Exam	200
Total	600

Scale

Grade	Points	Percentage
A+	567-600	95%-100%
A	537-566	90%-94%
A-	525-536	88%-89%
B+	507-524	85%-87%
B	477-506	80%-84%
B-	465-476	78%-79%
C+	447-464	75%-77%
C	387-446	65%-74%
D+	357-386	60%-64%
D	345-356	58%-59%
D-	327-344	55%-57%
F	0-326	0%-54%

Tentative Schedule:

Winter 2020

	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY	SUNDAY	Wk
Jan	6 INSTRUCTION BEGINS 10.1	7 10.2	8 10.2	9 10.3	10 10.3	11	12	1
Jan	13 10.4	14 11.1	15 11.1	16 11.2	17 Review Quiz #1	18 *Last Day to Add*	19 *Last Day to Drop with refund/credit, with no record.*	2
Jan	20 M L K Holiday *No Class*	21 Solutions 11.2	22 11.3	23 11.3, 11.4	24 11.4	25	26	3
Jan / Feb	27 11.5	28 11.5, 11.6	29 11.6	30 Review Hw/Proj.1 Due	31 *Last day to request P/NP* Exam #1	1	2	4
Feb	3 Solution	4 11.7	5 11.8	6 11.8	7 11.9	8	9	5
Feb	10 11.9	11 11.9	12 11.10	13 Review Quiz #2	14 *Lincoln's B-Day Holday* No Class	15 *President's Weekend*	16	6
Feb	17 *Washington's B-day Holiday* No Class	18 Solution 11.10	19 11.11	20 17.4	21 17.4	22	23	7
Feb / March	24 12.1	25 12.2	26 12.2, 12.3	27 Review Hw/Proj.2 Due	28 *Last Day to drop with a W* Exam #2	29	1 *Last day to file Winter degree or certificate*	8
March	2 Solution	3 12.3	4 12.4	5 12.4	6 12.5	7	8	9
March	9 12.5	10 12.6	11 13.1	12 13.2	13 Review Quiz #3	14	15	10
March	16 Solution 13.3	17 13.3	18 13.4	19 13.4	20 Review Hw/Proj. 3 Due	21	22	11
March	23 FINAL EXAM 11:30AM-1:30	24	25	26	27	28	29	12
April	30	31	1	2	3	4	5	0
April	6 *SPRING INSTRUCTION BEGIN*	7	8	9	10	11	12	1

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
	HW#2
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
	HW#3
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.