

Math 12-5, 12:30 p.m. --1:20 p.m. MTWThF, Room: S16,

Fall, 2019

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 11 or 41 (with a grade of C or better)
Textbook: *CALCULUS and its applications*, Tenth Edition, by Bittinger etc.
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 **Wednesday, 12/11/ 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 1.1	24 1.2	25 1.3	26 1.4	27 1.5	28	29	1
SEP / OCT	30 1.6	1 1.7	2 1.8	3 Review	4 Quiz #1	5 Last Day to Add	6 Last Day to Drop with no Record	2
OCT	7 Census Day 2.1	8 2.2	9 2.3	10 2.4	11 2.5	12	13	3
OCT	14 2.6	15 2.7	16 3.3	17 Review Hw/Proj. 1 Due	18 Last Day to Request P/NP Exam #1	19	20	4
OCT	21 Solution	22 3.4	23 3.5	24 3.6	25 4.1	26	27	5
OCT / NOV	28 4.2	29 4.3	30 4.4	31 Review	1 Quiz #2	2	3	6
NOV	4 4.5	5 4.6	6 4.7	7 5.1	8 5.2	9	10	7
NOV	11 VETERAN'S DAY NO CLASSES	12 5.3	13 5.4	14 Review Hw/Proj. 2 Due	15 Last Day to Drop with a W Exam #2	16	17	8
NOV	18 Solution	19 5.5	20 5.6	21 5.7	22 6.1	23	24	9
NOV / DEC	25 6.2	26 Review	27 Quiz #3	28 THANKS GIVING NO CLASSES	29 THANKS GIVING NO CLASSES	30	1	10
DEC	2 6.3	3 6.4	4 6.5	5 6.6	6 Review Hw/Proj. 3 Due	7	8	11
DEC	9	10	11 Final Exam 11:30AM-1:30	12	13	14	15	12
12 weeks, 53 days of instruction								

Homework Problems:

Sections	Problems
	HW #1
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
3.3	4, 7, 21, 41
	HW#2
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)
	HW#3
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
6.6	1, 4, 7, 10, 13

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.