

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 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. **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, 3/25/ 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:	<u>Distribution</u>		<u>Scale</u>		
			Grade	Points	Percentage
Attendance	40		A+	567-600	95%-100%
			A	537-566	90%-94%
Homework	60		A-	525-536	88%-89%
			B+	507-524	85%-87%
			B	477-506	80%-84%
			B-	465-476	78%-79%
Quizzes	100		C+	447-464	75%-77%
			C	387-446	65%-74%
			D+	357-386	60%-64%
Midterms	200		D	345-356	58%-59%
			D-	327-344	55%-57%
			F	0-326	0%-54%
Total	600		-----		

Tentative Schedule:

Winter 2020								
	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY	SUNDAY	Wk
Jan	6 INSTRUCTION BEGINS R.1-R.2	7	8	9	10	11	12	1
Jan	13 1.4	14 R.3-R.5 1.5	15 1.1 1.6	16 1.2 1.7	17 1.3 Review Quiz #1	18 <i>Last Day to Add</i>	19 <i>Last Day to Drop with refund/credit, with no record.</i>	2
Jan	20 ML K Holiday No Class	21 Solution 1.8	22 2.1	23 2.2	24 2.3	25	26	3
Jan / Feb	27 2.4	28 2.5	29 2.6	30 Review Hw/Proj.1 Due	31 <i>Last day to request P/NP Exam #1</i>	1	2	4
Feb	3 Solution	4 2.7	5 3.1, 3.2	6 3.3	7 3.4	8	9	5
Feb	10 3.5	11 3.6	12 4.1	13 Review Quiz #2	14 <i>Lincoln's B-Day Holiday No Class</i>	15-16 <i>President's Weekend</i>		6
Feb	17 <i>Washington's B-day Holiday No Class</i>	18 Solution 4.2	19 4.3	20 4.4	21 4.5	22	23	7
Feb / March	24 4.6	25 4.7	26 5.1	27 Review Hw/Proj. 2 Due	28 <i>Last Day to drop with a W Exam #2</i>	29	1 <i>Last day to file Winter degree or certificate</i>	8
March	2 Solution	3 5.2	4 5.3	5 5.4	6 5.5	7	8	9
March	9 5.6	10 5.7	11 6.1	12 6.2	13 Review Quiz #3	14	15	10
March	16 Solution 6.3	17 6.4	18 6.5	19 6.6	20 Review Hw/Proj. 3 Due	21	22	11
March	23	24	25-26 FINAL EXAM 11:30AM-1:30		27	28	29	12
March / 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
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
	HW#2
2.7	1, 4, 8, 10
3.3	4, 7, 21, 41
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)
	HW#3
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)
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.