Math 12-60 **MTWThF** **Winter, 2021**

SYLLABUS

Instructor: Dr. Kejian Shi
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Office Hour: All questions will be answered through email

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: This class is an **online class**. My daily lecture videos will be posted on the Canvas. Students are expected to watch and study the videos on every school day. Different people can watch at different time during the day. The videos can be watched multiple times. Questions will be answered 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 **6:00pm-7:00pm** 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 **6:00pm-8:00pm** 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 **6:00pm-9:00pm** on **Tuesday, March 23, 2021**. Any student missing the final will receive an F grade for the course.

Integrity: Any types of cheating are not tolerated. Corresponding school rules will be followed.

Grading:

Distribution

Quizzes	100
Midterms	200
Final Exam	200
Total	500

Scale

Grade	Points	Percentage
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%
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%
D-	273-287	55%-57%
F	0-272	0%-54%

Tentative Schedule:

Winter 2021

	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY	SUNDAY	Wk
Jan	4 INSTRUCTION BEGINS 1.1	5 1.2	6 1.3	7 1.4	8 1.5	9	10	1
Jan	11 1.6	12 1.7	13 1.8	14 Review	15 Quiz #1	16 *Last Day to Add*	17 *Last Day to Drop with refund/credit, with no record.*	2
Jan	18 M L K Holiday *No Class*	19 (Census Day) Solutions 2.1	20 2.2	21 2.3	22 2.4	23	24	3
Jan	25 2.5	26 2.6	27 2.7	28 Review	29 *Last day to request P/NP* Exam #1	30	31	4
Feb	1 Solutions	2 3.3	3 3.4	4 3.5	5 3.6	6	7	5
Feb	8 4.1	9 4.2	10 Review	11 Quiz #2	12 *Lincoln's B-Day Holday* No Class	13 *President's Weekend*	14	6
Feb	15 *Washington's B-day Holiday* No Class	16 Solutions 4.3	17 4.4	18 4.5	19 4.6	20	21	7
Feb	22 4.7	23 5.1	24 5.2	25 Review	26 *Last Day to drop with a W* Exam #2	27	28 *Last day to file Winter degree or certificate*	8
March	1 Solutions	2 5.3	3 5.4	4 5.5	5 5.6	6	7	9
March	8 5.7	9 6.1	10 6.2	11 Review	12 Quiz #3	13	14	10
March	15 Solutions 6.3	16 6.4	17 6.5	18 6.6	19 Review	20	21	11
March	22	23 FINAL EXAM 6:00PM-9:00PM	24	25	26	27	28	12

Homework Problems:

Sections	Problems
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
2.8	4, 10, 13, 19, 24, 29, 34, 39, 45
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)
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.