Math 12-15Y **Fall, 2023**

SYLLABUS

Instructor: Dr. Kejian Shi
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Office Hour: Wednesday, 9:30am-10:30am, S16-A

Prerequisites: Math 11 or 41 (with a grade of C or better)
Textbook: *CALCULUS and its applications*, 11th Edition, by Bittinger etc.
Materials: A scientific calculator recommended

Attendance: This class is an **in-person** and **online** combination class. Students are expected to be in class Monday through Thursday. On Fridy, students are expected to watch and study the lecture videos, which I have posted on the Canvas. The videos can be watched multiple times. Questions will be answered in the classroom, or during office hours, or through emails. **(It is the students' responsibility to drop the class 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) are **proctored quizzes** and will be given in the classroom on quiz days. Quiz problems are like homework problems and lecture examples. 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) are **proctored exams** and will be given in the classroom on midterm exam days. No makeup exams. 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** is a **proctored exam** and will be given in the classroom from **11:30am-1:30pm** on **Wednesday, December 13, 2023**. 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%

Math 12-15Y Tentative Schedule (Fall 2023):

	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY	SUNDAY	Wk
SEP / OCT	25 INSTRUCTION BEGINS R.3	26 1.1	27 1.2	28 1.3	29 1.4	30	1	1
OCT	2 1.5	3 1.6	4 Review	5 Quiz #1	6 1.7	7 Last Day to Add	8 Last Day to Drop with no Record	2
OCT	9 Census Day 1.8	10 2.1	11 2.2	12 2.3	13 2.4	14	15	3
OCT	16 2.5	17 2.6	18 Review	19 Exam #1	20 2.7	21	22	4
OCT	23 Solutions	24 2.8	25 3.3	26 3.4	27 3.5	28	29	5
OCT / NOV	30 3.6	31 4.1	1 Review	2 Quiz #2	3 4.2	4	5	6
NOV	6 4.3	7 4.4	8 4.5	9 4.6	10 VETERAN'S DAY NO CLASSES	11	12	7
NOV	13 4.7	14 5.1	15 Review	16 Exam #2	17 Last Day to Drop / W 5.2	18	19	8
NOV	20 Solutions	21 5.3	22 5.6	23 THANKSGIVING NO CLASSES	24 THANKSGIVING NO CLASSES	25	26	9
NOV / DEC	27 5.7	28 6.1	29 Review	30 Quiz #3	1 6.2	2	3	10
DEC	4 6.3	5 6.4	6 6.5	7 Review	8 Review	9	10	11
DEC	11	12	13 Final Exam 11:30am-1:30pm	14	15	16	17	12
						12 weeks, 53 days of instruction		

Homework problems:

Sections	Problems
R.3	36, 39, 46, 49, 53
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

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.

Office Hours:

T	09:30 AM	10:30 AM	In-Person	S-16A
W	09:30 AM	10:30 AM	In-Person	S16-A
F	11:30 AM	12:30 PM	Canvas Online	
TH	09:30 AM	10:30 AM	In-Person	S-16A
F	10:30 AM	11:30 AM	Canvas Online	