SYLLABUS

Instructor:	Dr. Kejian Shi
e-mail:	shikejian@fhda.edu
Office:	S-16A
Office Phone:	(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 1A (with a grade of C or better), or equivalent
Textbook:	*CALCULUS – Early Transcendentals* with Hyperbolic Functions 8th Ed. by Stewart and Larson
Materials:	Graphing 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: <u>Three</u> **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: <u>Two</u> **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: <u>One</u> **two-hour comprehensive examination** will be given on **Tuesday, 3/24/2020** from **9:15am–11:15am**. 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>

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

<u>Scale</u>

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 5.1	7 5.1	8 5.2	9 5.2	10 5.3	11	12	**1**
Jan	13 5.3, 5.4	14 5.4	15 5.5	16 5.5	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 3.11	22 6.1	23 6.2	24 6.2, 6.3	25	26	**3**
Jan / Feb	27 6.3	28 6.4	29 6.5	30 Review Hw/Proj.1 Due	31 *Last day to request P/NP* Exam #1	1	2	**4**
Feb	3 Solution	4 7.1	5 7.1	6 7.1	7 7.2	8	9	**5**
Feb	10 7.2	11 7.3	12 7.3	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 7.4	19 7.4	20 17.4	21 7.4	22	23	**7**
Feb / March	24 7.5, 7.6	25 7.7	26 7.7	27 Review Hw/Proj.2 Due	28 *Last Day to drop with a W* Exam #2	29	1	**8**
March	2 Solution	3 7.8	4 7.8	5 8.1	6 8.2	7	8	**9**
March	9 8.3	10 8.3	11 8.5	12 9.1	13 Review Quiz #3	14	15	**10**
March	16 Solution 9.2	17 9.3	18 9.3	19 9.4	20 Review Hw/Proj. 3 Due	21	22	**11**
March	23	24 FINAL EXAM 9:15AM-11:15	25	26	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
5.1	1, 4, 7, 13, 21, 25, 27
5.2	1, 4, 7, 10, 17, 20, 23, 28, 30, 33, 37, 40, 56, 57, 64, 70
5.3	1, 4, 7, 10, 13, 16, 19, 22, 25, 28, 31, 34, 37, 40, 43, 59, 62
5.4	1, 4, 7, 10, 13, 16, 21, 24, 27, 30, 33, 36, 37, 39, 42, 45
5.5	1, 4, 7, 10, 13, 16, 19, 22, 25, 28, 31, 34, 37, 40, 43, 46, 53, 56, 59, 62, 65, 68, 71
3.11	1, 4, 7, 10, 13, 16, 19, 22, 25, 28, 31, 34, 37, 40, 43
6.1	1, 4, 7, 10, 13, 16, 19, 22, 25, 28
6.2	1, 4, 7, 10, 13, 16, 19, 22, 25, 28, 31, 34, 41, 48, 50, 60, 63, 66
6.3	1, 4, 7, 10, 13, 16, 19, 22, 25, 31, 37, 40, 47
6.4	1, 4, 7, 10, 13, 16, 19, 22, 24, 25, 28
6.5	1, 4, 7, 10, 13, 16, 19, 22, 25, 26
	HW#2
7.1	1, 4, 7, 10, 13, 16, 19, 22, 25, 28, 31, 34, 37, 40, 47, 50, 53, 61, 72
7.2	1, 4, 7, 10, 13, 16, 19, 22, 25, 28, 31, 34, 37, 40, 43, 46, 49
7.3	1, 2, 4, 5, 7, 8, 10, 11, 13, 14, 16, 17, 19, 20, 22, 23, 25, 26, 28, 29, 31, 32
7.4	1, 2, 3, 4, 5, 6, 7, 10, 13, 16, 19, 24, 27, 30, 34, 37, 59, 60, 63
7.5	1, 6, 11, 16, 21, 26, 31, 36, 41, 46, 51, 56, 61, 66, 71, 76, 81
7.6	1, 4, 7, 10, 13, 16, 19, 22, 25, 28, 31
7.7	1, 6, 10, 16, 21, 27
	HW#3
7.8	1, 2, 5, 8, 11, 14, 17, 20, 23, 26, 29, 32, 35, 38, 49, 51, 54, 59
8.1	1, 4, 7, 10, 13, 16, 19, 25, 33, 35, 39
8.2	1(a), 4(a), 7, 10, 13, 16, 27, 33, 35, 37
8.3	1, 4, 7, 10, 14, 22, 23, 25, 28, 30, 33, 35
8.5	1, 5, 6, 8
9.1	1, 4, 7, 10, 13
9.2	1, 4, 7, 10, 13, 21, 24
9.3	1, 4, 7, 10, 13, 16, 19, 22, 29, 32, 45, 46, 47
9.4	3, 5, 11, 13, 18

<u>Student Learning Outcome(s):</u>

*Analyze the definite integral from a graphical, numerical, analytical, and verbal approach, using correct notation and mathematical precision.

*Formulate and use the Fundamental Theorem of Calculus.

*Apply the definite integral in solving problems in analytical geometry and the sciences.