# SYLLABUS

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| **Instructor:** | Dr. Kejian Shi |
| **e-mail:** | shikejian@fhda.edu |
| **Office Hour:** | Tuesday, 10:00am-11:00am virtual office hour via zoom on canvas |

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| **Prerequisites:** | Math 1C (with a grade of C or better), or equivalent |
| **Textbook:** | *CALCULUS – Early Transcendentals*, 8th E (California Edition), by James Stewart |
| **Materials:** | Graphing 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 before each class. The videos can be watched multiple times. Questions will be answered during the office hours or through emails. (**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 8:00pm-9:00pm 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) will be given from 8:00pm-10:00pm on the 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** will be given from **8:00pm-11:00pm** on **Wednesday, December 14, 2022**. 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 | | | Scale | | |
|---|---|---|---|---|---|
| | | | Grade | Points | Percentage |
| | | | A+ | 473-500 | 95%-100% |
| Quizzes | 100 | | A | 448-472 | 90%-94% |
| | | | A- | 438-447 | 88%-89% |
| | | | B+ | 423-437 | 85%-87% |
| | | | B | 398-422 | 80%-84% |
| Midterms | 200 | | B- | 388-397 | 78%-79% |
| | | | C+ | 373-387 | 75%-77% |
| | | | C | 323-372 | 65%-74% |
| | | | D+ | 298-322 | 60%-64% |
| Final Exam | 200 | | D | 288-297 | 58%-59% |
| | --------- | | D- | 273-287 | 55%-57% |
| Total | 500 | | F | 0-272 | 0%-54% |

**Math 1D-52Z Tentative Schedule (Fall 2022):**

| | MONDAY | TUESDAY | WEDNESDAY | THURSDAY | FRIDAY | SATURDAY | SUNDAY | Wk |
|---|---|---|---|---|---|---|---|---|
| SEP / OCT | 26 INSTRUCTION BEGINS 14.1 | 27 14.2 | 28 14.3 | 29 14.3 | 30 14.4 | 1 | 2 | 1 |
| OCT | 3 14.4 | 4 14.5 | 5 14.6 | 6 14.6 | 7 Quiz #1 8:00pm-9:00pm | 8 Last Day to Add | 9 Last Day to Drop with no Record | 2 |
| OCT | 10 Census Day 14.7 | 11 14.7 | 12 14.8 | 13 15.1 | 14 15.2 | 15 | 16 | 3 |
| OCT | 17 15.2 | 18 15.3 | 19 15.4 | 20 Review | 21 Exam #1 8:00pm-10:00pm | 22 | 23 | 4 |
| OCT | 24 Solution | 25 15.4 | 26 15.5 | 27 15.6 | 28 15.6 | 29 | 30 | 5 |
| OCT / NOV | 31 15.7 | 1 15.8 | 2 15.9 | 3 15.9 | 4 Quiz #2 8:00pm-9:00pm | 5 | 6 | 6 |
| NOV | 7 16.1 | 8 16.2 | 9 16.2 | 10 16.3 | 11 VETERAN'S DAY NO CLASSES | 12 | 13 | 7 |
| NOV | 14 16.3 | 15 16.4 | 16 16.4 | 17 Review | 18 Last Day to Drop a W Exam #2 8:00pm-10:00pm | 19 | 20 | 8 |
| NOV | 21 Solution | 22 16.5 | 23 16.5 | 24 THANKSGIVING NO CLASSES | 25 THANKSGIVING NO CLASSES | 26 | 27 | 9 |
| NOV / DEC | 28 16.6 | 29 16.6 | 30 16.7 | 1 16.7 | 2 Quiz #3 8:00pm-9:00pm | 3 | 4 | 10 |
| DEC | 5 16.8 | 6 16.8 | 7 16.9 | 8 16.9 | 9 Review | 10 | 11 | 11 |
| DEC | 12 | 13 | 14 Final Exam 8:00pm-11:00pm | 15 | 16 | 17 | 18 | 12 |
| | | | | | 12 weeks, 53 days of instruction | | | |

**Homework problems:**

| Sections | Problems |
|---|---|
| | |
| 14.1 | 1, 4, 7, 10, 18, 21, 25, 31, 45, 48, 68 |
| 14.2 | 5, 8, 11, 14, 17, 20, 26, 29, 32, 35, 38, 41 |
| 14.3 | 1, 4, 7, 10, 15, 18, 21, 24, 27, 30, 33, 36, 39, 42, 45 |
| 14.3 | 48, 51, 54, 57, 60, 63, 66, 69, 72, 75, 78, 81, 84, 87 |
| 14.4 | 1, 4, 7, 11, 14, 17, 21, 24, 27, 30, 33, 36, 39, 42, 45 |
| 14.5 | 1, 4, 7, 10, 13, 16, 19, 22, 25, 28 |
| 14.5 | 31, 34, 37, 40, 43, 46, 49, 52, 55, 58 |
| 14.6 | 4, 7, 10, 13, 16, 19, 22, 25, 28, 41, 44, 51, 55 |
| 14.7 | 1, 4, 7, 10, 13, 16, 19, 22, 31, 34, 37, 43, 47, 50, 59 |
| 14.8 | 1, 4, 7, 10, 13, 16, 19, 22, 25, 30 |
| | |
| 15.1 | 1, 4, 7, 10, 13, 16, 19, 22, 25, 28, 31, 34, 37, 40, 47, 50 |
| 15.2 | 1, 4, 7, 10, 13, 16, 19, 22, 25, 28, 31 |
| 15.2 | 35, 37, 40, 45, 48, 51, 54, 57, 60, 62, 65, 68 |
| 15.3 | 1, 4, 6, 7, 10, 13, 16, 19, 22, 25, 29, 32, 34, 37, 40 |
| 15.4 | 1, 4, 7, 10, 13, 16, 19, 22, 28 |
| 15.5 | 1, 4, 7, 10, 13, 21, 24 |
| 15.6 | 2, 4, 7, 10, 13, 16, 19, 22, 25, 28 |
| 15.6 | 31, 34, 35, 37, 40, 43, 46, 48, 51, 54 |
| 15.7 | 1, 4, 6, 8, 9, 11, 15, 18, 21, 24, 27, 30 |
| 15.8 | 1, 4, 6, 8, 10, 13, 16, 18, 20, 23, 26, 29, 32, 35, 42, 48 |
| 15.9 | 1, 4, 7, 10, 11, 14, 16, 19, 22, 25, 27 |
| | |
| 16.1 | 1, 4, 7, 10, 13, 16, 21, 24, 25, 31, 34 |
| 16.2 | 1, 4, 7, 10, 13, 16, 19, 22, 25, 33, 36, 39, 42, 45, 48 |
| 16.3 | 1, 4, 7, 10, 13, 16, 19, 22, 24, 26, 29, 32, 35 |
| 16.4 | 1, 4, 7, 10, 11, 14, 17, 21, 24, 27 |
| 16.5 | 1, 4, 7, 10, 12, 15, 18, 21, 24, 27, 30, 33, 34 |
| 16.6 | 1, 4, 13, 16, 19, 22, 25, 33, 36, 39, 42, 45, 48, 51, 61, 62 |
| 16.7 | 1, 4, 7, 10, 13, 16, 19, 22, 25, 28, 31, 37, 40, 43, 46, 49 |
| 16.8 | 1, 4, 7, 10, 13, 16, 19, 20 |
| 16.9 | 1, 4, 7, 10, 13, 17, 19, 24, 26, 29 |

## Student Learning Outcome(s):

*Graphically and analytically synthesize and apply multivariable and vector-valued functions and their derivatives, using correct notation and mathematical precision.

*Use double, triple and line integrals in applications, including Green's Theorem, Stokes' Theorem and Divergence Theorem.

*Synthesize the key concepts of differential, integral and multivariate calculus.

## Office Hours:

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|------|----|----------|----------|
| Zoom | M | 10:00 AM | 11:00 AM |
| Zoom | T | 10:00 AM | 11:00 AM |
| Zoom | TH | 10:00 AM | 11:00 AM |
| Zoom | W | 10:00 AM | 11:00 AM |