

SYLLABUS

Instructor: Dr. Kejian Shi
e-mail: shikejian@fhda.edu
Office Hour: Wednesday, 1:30pm-2:30pm virtual office hour via zoom on canvas

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 **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 times during the day. The videos can be watched multiple times. Questions will be answered through emails.

Homework: **Six homework sets** will be collected, each on **the test (Quiz and Exam) days** (10 points for each set). No late hws will be accepted. One lowest hw score will be replaced by 10. 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 **on canvas**. No makeup quizzes. One lowest quiz score will be replaced by the average of the two highest quiz scores. Quiz problems are similar to homework problems and lecture examples.

Midterms: **Two one-class-hour midterm examinations** (100 points each) will be given **on canvas**. No makeup midterms. One lowest midterm score will be replaced by the percentage of your final exam score, if the percentage is higher.

Final Exam: **One two-hour comprehensive examination** will be given **on canvas**, on **Monday, 12/9/2024**, from **8:00pm–10:00pm**. Anyone 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 |
| Homework | 60 | | A+ | 529-560 | 95%-100% |
| | | | A | 501-528 | 90%-94% |
| Quizzes | 100 | | A- | 490-500 | 88%-89% |
| | | | B+ | 473-489 | 85%-87% |
| | | | B | 445-472 | 80%-84% |
| Midterms | 200 | | B- | 434-444 | 78%-79% |
| | | | C+ | 417-433 | 75%-77% |
| | | | C | 361-416 | 65%-74% |
| Final Exam | 200 | | D+ | 333-360 | 60%-64% |
| | | | D | 322-332 | 58%-59% |
| | | | D- | 305-321 | 55%-57% |
| | <hr/> | | F | 0-304 | 0%-54% |
| | Total | 560 | | | |

Math 12-61Z Tentative Schedule (Fall 2024):

| | MONDAY | TUESDAY | WEDNESDAY | THURSDAY | FRIDAY | SATURDAY | SUNDAY | Wk |
|----------------------------------|--------------------------------------|--------------|--------------------------------|----------------------------------|---|----------|---|----|
| SEP | 23 INSTRUCTION BEGINS R.3 | 24 1.1 | 25 1.2 | 26 1.3 | 27 1.4 | 28 | 29 | 1 |
| SEP / OCT | 30 1.5 | 1 1.6 | 2 1.7 | 3 Review | 4 Quiz #1 8:00pm-8:45pm | 5 | 6 Last Day to Add/ Drop (without a W) | 2 |
| OCT | 7 1.8 | 8 2.1 | 9 2.2 | 10 2.3 | 11 2.4 | 12 | 13 | 3 |
| OCT | 14 2.5 | 15 2.6 | 16 2.7 | 17 Review | 18 Exam #1 8:00pm-9:00pm | 19 | 20 | 4 |
| OCT | 21 Solutions | 22 2.8 | 23 3.3 | 24 3.4 | 25 3.5 | 26 | 27 | 5 |
| OCT / NOV | 28 3.6 | 29 4.1 | 30 4.2 | 31 Review | 1 Quiz #2 8:00pm-8:45pm | 2 | 3 | 6 |
| NOV | 4 4.3 | 5 4.4 | 6 4.5 | 7 4.6 | 8 4.7 | 9 | 10 | 7 |
| NOV | 11 VETERAN'S DAY NO CLASSES | 12 5.1 | 13 5.2 | 14 Review | 15 Last Day to Drop with a W Exam #2 8:00pm-9:00pm | 16 | 17 | 8 |
| NOV | 18 Solutions | 19 5.3 | 20 5.6 | 21 5.7 | 22 6.1 | 23 | 24 | 9 |
| NOV / DEC | 25 6.2 | 26 Review | 27 Quiz #3 8:00pm-8:45pm | 28 THANKSGIVING NO CLASSES | 29 THANKSGIVING NO CLASSES | 30 | 1 | 10 |
| DEC | 2 6.3 | 3 6.4 | 4 6.5 | 5 Review | 6 Review | 7 | 8 | 11 |
| DEC | 9 Final Exam 8:00pm-10:00pm | 10 | 11 | 12 | 13 | 14 | 15 | 12 |
| 12 weeks, 53 days of instruction | | | | | | | | |

Homework problems:

| Sections | Problems |
|----------|---|
| | HW #1 |
| 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) |
| | HW #2 |
| 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 |
| | HW #3 |
| 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 |
| | HW #4 |
| 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 |
| | HW #5 |
| 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) |
| | HW #6 |
| 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:

| | | | | |
|---|----------|----------|-----------|-------|
| M | 10:30 AM | 11:30 AM | In-Person | S-16A |
| W | 10:30 AM | 11:30 AM | In-Person | S-16A |
| M | 01:30 PM | 02:30 PM | Canvas | |
| M | 01:30 PM | 02:30 PM | Canvas | |
| T | 11:30 AM | 12:30 PM | Canvas | |
| W | 01:30 PM | 02:30 PM | Canvas | |
| M | 10:30 AM | 11:30 AM | In-Person | S-16A |