## SYLLABUS

| Instructor: | Dr. Kejian Shi |
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| e-mail: | shikejian@ fhda.edu |
| Office Hour: | All questions will be answered through email |


| Prerequisites: | Math 11 or 41 (with a grade of C or better) |
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| Textbook: | CALCULUS and its applications, 11 th 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: $\quad$ 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 Monday, June 21, 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 |  | 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\% |

Tentative Schedule:

|  | MON | TUE | WED | THUR | FRI | SAT | SUN | Wk |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| APL | $\square$ <br> 1.1 | $1.2{ }^{6}$ | $\begin{array}{ll} \hline & \\ & \\ \mathbf{1 . 3} \\ \hline \end{array}$ | $1.4{ }^{8}$ | $\square$ | 10 | 11 | 1 |
| APL | $1.6{ }^{12}$ |  |  | $15$ <br> Review | 16 <br> Quiz \#1 | 17 Last day to add | 18 <br> Last day to drop <br> with no record | 2 |
| APL | Solution $^{19}$ 2.1 | $\begin{array}{rr} 20 \\ 2.2 \\ \hline \end{array}$ | $\begin{array}{r} 21 \\ \mathbf{2 . 2 , 2 . 3} \end{array}$ | $\begin{array}{rr} \hline 22 \\ 2.3 \\ \hline \end{array}$ | $\begin{array}{r} 23 \\ 2.4 \\ \hline \end{array}$ | 24 | 25 | 3 |
| $\begin{gathered} \mathrm{APL} \\ 1 \\ \text { MAY } \end{gathered}$ | $\square$ <br> 2.5 | $\begin{array}{ll} \hline 27 \\ 2.6 \end{array}$ | $\begin{array}{r} 28 \\ 2.7 \\ \hline \end{array}$ | $29$ <br> Review | 130 Request P/NP Exam \#1 | ${ }^{1}$ | 2 | 4 |
| MAY | Solution ${ }^{3}$ | $3.3{ }^{4}$ | $3.4$ | $\begin{aligned} & \\ & \hline \end{aligned}$ | $\begin{array}{r} 7 \\ 3.6 \quad \\ \hline \end{array}$ | 8 | 9 | 5 |
| MAY | $\square$ | $\qquad$ | $\square$ | $13$ <br> Review | 14 <br> Quiz \#2 | 15 | 16 | 6 |
| MAY | Solution $^{17}$ <br> 4.4 | $\begin{array}{rr} 18 \\ 4.5 & \\ \hline \end{array}$ | $\begin{array}{r} 19 \\ 4.5,4.6 \end{array}$ | $\begin{array}{r} 20 \\ 4.6 \\ \hline \end{array}$ | $\begin{array}{r} 21 \\ 4.7 \\ \hline \end{array}$ | 22 | 23 | 7 |
| MAY | $\square$ |  | $\begin{array}{rr} \hline & 26 \\ 5.3 \\ \hline \end{array}$ | $27$ <br> Review | 28 <br> Drop with "W" <br> Exam \#2 | 29 | 30 | 8 |
| $\begin{gathered} \mathrm{MAY} \\ 1 \\ \mathrm{JUN} \\ \hline \end{gathered}$ | 31 <br> Memorial Day <br> HOLIDAY | $-1$ <br> Solution | $\begin{array}{r} 2 \\ 5.4 \\ \hline \end{array}$ | $\square$ | $\square$ <br> 5.6 | 5 | 6 | 9 |
| JUN | $\square$ | $\begin{array}{ll} 8 \\ & 8.1 \\ \hline \end{array}$ | $\begin{array}{lr}  & 9 \\ 6.2 & \\ \hline \end{array}$ | $10$ <br> Review | 11 <br> Quiz \#3 | 12 | 13 | 10 |
| JUN | Solution $^{14}$ <br> 6.3 | $\square$ | $\square$ | $\square$ <br> 6.6 | $18$ <br> Review | 19 | 20 | 11 |
| JUN | 21 <br> Final Exam <br> 6:00pm-9:00 | 22 | 23 | 24 | 25 | 26 | 27 | 12 |
| $\begin{gathered} \hline \text { JUN } \\ 1 \\ \text { JUL } \\ \hline \end{gathered}$ | 28 SUMMER BEGINS | 29 | 30 | 1 | 2 | 3 | 4 | 1 |

Homework Problems:

| Sections |  |
| :--- | :--- |
| 1.1 | $11,15-22,54,59,65,68$ |
| 1.2 | $1,5,9, \ldots, 69$ (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 | $1,5,9, \ldots, 65$ (every other odd) |
| 1.6 | $5,12,15,20,25,35,40,46,113,117$ |
| 1.7 | $1,4,7, \ldots, 73$ (every third) |
| 1.8 | $1,4,7, \ldots, 46$ (every third) |
| 2.1 | $1,4,7, \ldots, 34$ (every third) |
| 2.2 | $1,5,9, \ldots, 45$ (every other odd) |
| 2.3 | $2,6,14,18,28,32,42,48,54$ |
| 2.4 | $7,10,13, \ldots, 34$ (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 | $1,4,7, \ldots, 58$ (every third) |
| 4.2 | $1,4,7, \ldots, 34$ (every third) and 36 |
| 4.3 | $1,4,7, \ldots, 58$ (every third) |
| 4.4 | $1,4,7, \ldots, 43$ (every third) |
| 4.5 | $1,5,9, \ldots, 57$ (every other odd) and $79,83,85$ |
| 4.6 | $1,4,7, \ldots, 37$ (every third) |
| 4.7 | $1,4,7, \ldots, 28$ (every third) |
| 5.1 | $1,4,7,10,13$ |
| 5.2 | $1,4,7,10,13,16,19$ |
| 5.3 | $1,4,7, \ldots, 28$ (every third) |
| 5.4 | $1,4,7, \ldots, 28$ (every third) |
| 5.5 | $1,4,7, \ldots, 31$ (every third) |
| 5.6 | $1,4,7, \ldots, 31$ (every third) |
| 5.7 | $1,4,7, \ldots, 46$ (every third) |
| 6.1 | $1,4,7,9,12$ |
| 6.2 | $1,4,7, \ldots, 40$ (every third) |
| 6.3 | $1,4,7, \ldots, 19$ (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.

