

## Policy

- NO CELL PHONES are allowed during lecture and lab sessions. PLEASE turn them off before lecture! (Not silent or vibrating mode). This is a university policy and violators will be reprimanded accordingly.
- No late assignments will be accepted without prior arrangement with the instructor for acceptable excuses. Medical and family emergency will be considered on case-by-case basis.
- No late homework will be accepted. Homework is to be completed on an individual basis. Students may discuss homework with classmates, but students are responsible for your own work. If students have consulted classmates, please note the individuals name on the top of students' assignment.
- Quizzes may be given unannounced throughout the term and will count as one homework. There will be no make-up quizzes.
- Students will be divided into groups of 3 individuals for study group sessions and will be assigned some problems to solve together in the class.
- No make-up exams. If students miss an exam, a zero score will be assigned to the missed exam.
- If students should miss class due to personal emergency or medical reasons, please notify the instructor by email immediately. A doctor's note will be required for make-up work.
- Students are responsible for completing the reading assigned from the textbook related to the covered topics and for checking email regularly for important information and announcements related to the course.
- University policy on academic honesty concerning exams and individual work will be strictly enforced.
- BE ON TIME!

| Week | Date/Day <br> (Tentative) | Topics | Textbook/Assignmen ts |
| :---: | :---: | :---: | :---: |
| 1 | $\begin{aligned} & 30.09 .21 \\ & 01.10 .21 \end{aligned}$ | - Rates of Change and Tangents to Curves <br> - Limit of a Function and Limit Laws | Ch.2.1, 2.2 |
| 2 | $\begin{aligned} & 07.10 .21 \\ & 08.10 .21 \end{aligned}$ | - The Precise Definition of a Limit <br> - Practice | Ch. 2.3 |
| 3 | $\begin{aligned} & \hline 14.10 .21 \\ & 15.10 .21 \end{aligned}$ | - One-Sided Limits <br> - Continuity | Ch. 2.4, 2.5 |
| 4 | $\begin{aligned} & 21.10 .21 \\ & 22.10 .21 \end{aligned}$ | - Limits Involving Infinity; Asymptotes of Graphs <br> - Tangents and the Derivative at a Point | Ch. 2.6, 3.1, |
| 5 | $\begin{aligned} & \hline 28.10 .21 \\ & 29.11 .21 \end{aligned}$ | - The Derivative as a Function <br> - Differentiation Rules | Ch. 3.2, 3.3 Quiz 1 ( 6 pts) |
| 6 | $\begin{aligned} & \hline 04.11 .21 \\ & 05.11 .21 \end{aligned}$ | - The Derivative as a Rate of Change <br> - Derivatives of Trigonometric Functions | Ch. 3.4, 3.5 |
| 7 | $\begin{aligned} & 11.11 .21 \\ & 12.11 .21 \end{aligned}$ | - The Chain Rule <br> - Implicit Differentiation | Ch. 3.6, 3.7 |
| 8 | $\begin{aligned} & \hline 18.11 .21 \\ & 19.11 .21 \end{aligned}$ | - Practice <br> - Derivatives of Inverse Functions and Logarithms | Ch. 3.8 |
| 9 | $\begin{aligned} & 25.11 .21 \\ & 26.11 .21 \end{aligned}$ | - Midterm Exam <br> - Inverse Trigonometric Functions | Ch. 3.9 |
| 10 | $\begin{aligned} & \hline 02.12 .21 \\ & 03.12 .21 \end{aligned}$ | - Systems of linear equations: Basic Concepts, Gaussian Elimination, Homogeneous Systems of Linear Equations <br> - Matrices: Basic definitions, Matrix operations, Types of matrices, Kronecker Delta Symbol, Properties of Matrix Operations |  |
| 11 | $\begin{aligned} & \hline 09.12 .21 \\ & 10.12 .21 \end{aligned}$ | - Determinants: Permutations and Transpositions, Determinant General Definition, Properties of Determinants | Quiz-2 (7 pts) |
| 12 | $\begin{aligned} & 16.12 .21 \\ & 17.12 .21 \end{aligned}$ | - Determinant Calculation <br> - Practice |  |
| 13 | $\begin{aligned} & 23.12 .21 \\ & 24.12 .21 \end{aligned}$ | - Inverse matrices: Three Lemmas, Theorem of Inverse Matrix, Calculation of Inverse Matrices by ElementaryTransformations |  |
| 14 | 30.12.21 | - Matrix Rank | Quiz-3 (7 pts) |
| 15 |  | - Cramer's Rule, Cramer's General Rule |  |
|  | TBA | Final Exam |  |

