This chart compares the equivalent sections of the UC Davis MAT 21A and (enter your college name here + course name and number).

**Calculus Course Comparison**

Equivalency of UC Davis (MAT 21A) and (enter your college here + course name and number)

Textbook used for (college name) course:

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**ISBN:** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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| **UC Davis MAT 21A Calculus Sections** | **(enter your college + course name and number) Sections** |
| 1.1-1.6: Review chapter one. Cover definitions of exponential functions, inverse functions, and logarithms. Okay to skip and refer to as needed. |  |
| 2.1 Rates of change and tangents to curves |  |
| 2.2 Limit of a function and limit laws |  |
| 2.3 Precise definition of limit |  |
| 2.4 One-sided limits |  |
| 2.5 Continuity |  |
| 2.6 Limits involving infinity; asymptotes of graphs |  |
| 3.1 Tangents and the derivative at a point |  |
| 3.2 The derivative as a function |  |
| 3.3 Differentiation rules |  |
| 3.4 The derivative as a rate of change |  |
| 3.5 Derivatives of trigonometric functions |  |
| 3.6 The Chain Rule |  |
| 3.7 Implicit differentiation |  |
| 3.8 Derivative of inverse functions and logarithms |  |
| 3.9 Inverse trigonometric functions |  |
| 3.10 Related rates |  |
| 3.11 Linearization and differentials |  |
| 4.1 Extreme values of functions |  |
| 4.2 The Mean Value Theorem |  |
| 4.3 Monotonic functions and the first derivative test |  |
| 4.4 Concavity and curve sketching |  |
| 4.5 Indeterminate forms and L’Hopital’s Rule (omit proof) |  |
| 4.6 Applied optimization |  |
| 4.7 Newton’s method |  |