This chart compares the equivalent sections of the UC Davis MAT 16A and (enter your college name here + course name and number).

**Short Calculus Course Comparison**

Equivalency of UC Davis Short Calculus (MAT 16A) and (enter your college here + course name and number)

Textbook used for (college name) course:

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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

|  |  |
| --- | --- |
| **UC Davis MAT 16A Sections** | **(enter your college + course name and number) Sections** |
| 1.1-1.3 Cartesian plane, distance formula, midpoint formula, graphs, intercepts, circles, and lines |  |
| 1.4 Functions, composition of functions, and inverse |  |
| 1.5 Limits |  |
| 3.6 Vertical asymptotes and finite limits; horizontal asymptotes and limits of infinity |  |
| 1.6 Continuity |  |
| 2.1 Slope of the tangent line, definition of the derivative, differentiability and continuity. |  |
| 8.1-8.3 Trigonometry review |  |
| 2.2 Constant rule, power rule, constant multiple rule, sum and differences rules. |  |
| 2.3 Average rate change, instantaneous rate of change, velocity, marginals in economics |  |
| 2.4 Product and quotient rules; |  |
| 8.4 Derivatives of trig functions |  |
| 2.5 Chain rule, general power rule |  |
| 2.6 Higher order derivatives, acceleration |  |
| 2.7 Implicit differentiation |  |
| 2.8 Related rates |  |
| 3.1 Increasing and decreasing functions, critical numbers |  |
| 3.2 Relative extrema, the first-derivative test, absolute extrema |  |
| 3.3 Concavity, points of inflection, the second-derivative test |  |
| 3.4 Optimization problems |  |
| 3.7 Sketching graphs |  |
| 3.8 Differentials |  |