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

**Short Calculus Course Comparison**

Equivalency of UC Davis Short Calculus (MAT 16C) 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 16C Sections** | **(enter your college + course name and number) Sections** |
| C.1 Introduction to differential equations |  |
| C.2 Separation of variables (Show how to derive the exponential growth and decay formula) |  |
| C.3 First order linear DE’s |  |
| C.4 Applications of DE's |  |
| 7.1 3-dimensional coordinates |  |
| 7.2 Planes and quadric surfaces |  |
| 7.3 Functions of several variables, level curves |  |
| 7.4 Partial Derivatives |  |
| 7.5 Relative extrema for functions of two variables |  |
| 7.6 Lagrange multipliers |  |
| 7.8 Double integrals |  |
| 7.9 Applications of double integrals: volume and average value (Show how to find the volumes of solids bounded by 2 surfaces) |  |
| 10.1 Sequences |  |
| 10.2 Definition of infinite series, Divergence test, geometric series |  |
| 10.3 P-series, Ratio test |  |
| 10.4 Power series, Taylor’s Theorem; Maclaurin series for sine and cosine, binomial series |  |
| 10.5 Taylor polynomials |  |
| 10.6 Newton’s Method |  |