Expanded Course Description – Math 019

Fundamentals of Calculus I is the first course in a two course sequence. The underlying applications of differential calculus will be investigated (chapters 1 – 6 and 13 of the Lial textbook). This will include an understanding of functions, limits, continuity, rates of change, derivatives (including implicit), and derivative applications. The material will be discovered and shown via mathematical modeling of real world situations. An emphasis will be made to understand these new concepts graphically, numerically, verbally, and algebraically. The motivating goal behind this course is to introduce the basic theory and concepts of differential calculus. Upon the successful completion of the course, a student will be prepared to take Math 020.

Course Materials Options

There are two options for course materials available at the UVM bookstore. You can decide to choose one of these options or you may choose to purchase your course materials from another source. Please be aware that the only required item is access to MyMathLab, and purchasing these resources from a source outside of UVM or the publisher runs the risk of obtaining compromised materials.


Note: An e-book version of the textbook Calculus with Applications 10th Edition by Lial, Greenwell and Ritchey is included with the MyMathLab Access Code.

Note: An Access Codes cannot be used by multiple people, but a single person can use the code for both Math 019 and Math 020.