

About this course

This course, MAT 131 (Calculus I), is the first course in the calculus sequence MAT 131, MAT 132. It covers limits and derivatives, differentiation techniques, applications of differentiation (linear approximations, related rates problems, graphing functions, optimization problems, L'Hopital's rule); antiderivative and indefinite integral; definite integrals, Riemann sums, the Fundamental Theorem of Calculus.

The courses MAT 131/132 and MAT 125/126/127 overlap in the topics.

This course contains 33 Video Lectures (written by Julia Viro and narrated by Timothy Alland and Paul Sweeney) with transcripts, course notes, and homeworks with answer key and solutions.

The textbook is Gilbert Strang *Calculus. Volume 1*. (available for free on Openstax):

<https://openstax.org/details/books/calculus-volume-1>