

## About this course

This course, MAT 125 (Calculus A), is the first course in the calculus sequence MAT 125, MAT 126, MAT 127. It covers limits and continuity, derivative, differentiation rules, implicit differentiation, applications of differentiation: linear approximations and differentials, related rates and optimization problems, shapes of curves, l'Hopital's rule, antiderivatives.

All the material in MAT 125 is also covered by MAT 131 (which also does some of the MAT 126 material), although the posted material here is distinct.

This course contains 26 Video Lectures (given by David Khan) with transcripts 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>