

About this course

This course, MAT 132 (Calculus II), is a continuation of MAT 131. It covers integration techniques, improper integrals; area, volume, and arc length calculation; applications of integration to physics (work against gravity, Hook's law); simplest differential equations and modeling, sequences, series, power series, Taylor series.

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

This course contains 42 Video Episodes (given by Julia Viro) with transcripts, course notes, and homeworks with answer key and solutions.

The textbook is Gilbert Strang *Calculus. Volume 2.* (available for free on Openstax):

<https://openstax.org/details/books/calculus-volume-2>