

# MAT135 Calculus 1

Fall 2020  
University of Toronto



## How you will learn: Course Activities

### Initial Learning

Watch Introductory Videos  
Read Text  
Problems on WileyPlus

### Making Connections

Attend synchronous Class & TeamUp!  
Watch Videos  
Solve WileyPlus problems and Application Challenges  
Participate in Tutorial Activities and Discussions  
Complete Applied Communication Tasks

### Demonstrating Learning

Weekly Quiz  
Unit Test??  
Final Assessment??

## Are you ready?

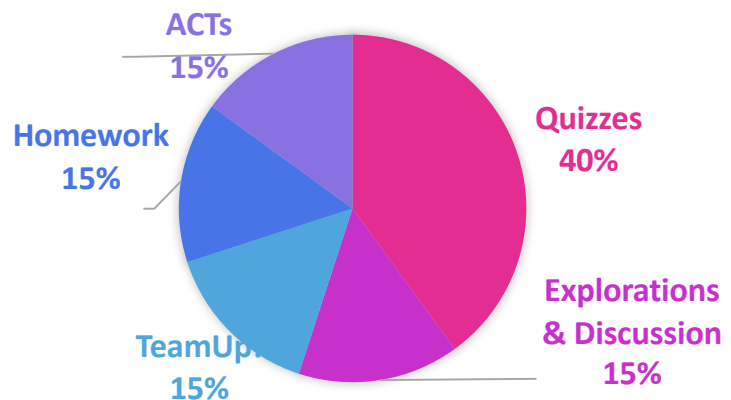
You need to be very comfortable using algebra and working with functions. You do not need a prior calculus course. For review and self-assessment go to <http://math.utoronto.ca/prep>

## What you will learn

By the end of the course you should be able to:

- ✓ understand, use, and translate between multiple representations of functions, limits, and derivatives
- ✓ solve complex and novel problems using tools from calculus
- ✓ analyze the effectiveness of mathematical models from science and social science through written and oral arguments
- ✓ recognize that you are a confident and capable user and communicator of mathematics
- ✓ possess a mental framework of calculus and develop skills and habits for learning math that enable you to independently learn quantitative information within science courses in the future

## How your learning will be assessed: Grading



Academic Integrity is fundamental to learning at UofT. See the course syllabus for examples relevant to MAT135..

## Key Dates

Last Day to add or make section changes  
ADD  
Last Day to switch calculus courses  
ADD  
ACT Due Dates  
ADD

## What you will need for MAT135&136

- Electronic textbook and WileyPlus (text comes with WileyPlus subscription): *Calculus* 7<sup>th</sup> ed by Hughes-Hallett et al
- Course website: “MAT135F 2020 Main Site” at [q.utoronto.ca](http://q.utoronto.ca)
- Access to the Internet [LINK to online course standards]
- Technology
  - Geogebra – for homework and explorations
  - ?– for tutorials and discussion
  - TeamUp! – for voting
  - Zoom – for classes and breakout discussions
  - Quercus – for textbook, WileyPlus problems, quizzes, course website
  - GradeScope - for assignment and test submission

# MAT135

## Top 10 Tips for Success in MAT135

Work with other students and talk about calculus with them

Do many problems, and focus on *why* a solution works rather than the final answer

After every lecture or tutorial, take 30 seconds to summarize what you have learned

Read the assigned textbook reading *before* coming to class and keep up on the assigned problems

Instead of re-reading, test yourself on the material by solving textbook additional problems and by explaining it to someone else

Use examples as a road map: rather than focusing on the individual steps, think about how they are connected to the overall goal of the problem

'Interleave' your practice: mix up the types of problems, solutions, and approaches as you review rather than only reviewing one section at a time

Do not 'cram': complete reading and homework when they are assigned

Think in class: don't be a passive listener

Use the free resources available to you as a student of University of Toronto (see the Resources on the course website)

### **Warning!**

This is not the complete course syllabus! The syllabus contains a lot of additional information. It is your responsibility to read it and be aware of the policies. Also read weekly announcements.