

COURSE INFORMATION & SYLLABUS: Fall 2026
MATH 151 Calculus I

Time and Place:

Section 1 - 11:30am-12:45pm, MWF; Recitation @ 11:30am-12:45pm Tuesday; in M05 Mumbai.

Section 2 - 2pm-3:15pm, MWF; Recitation @ 11:30am-12:45pm Thursday; in M05 Mumbai.

Instructor: [Hemanshu Kaul](#), kaul@illinoistech.edu.

Office: Faculty area, Mumbai Campus.

Graduate Teaching Assistant: Aadityaa Reddy Dummbala, adummbala@hawk.illinoistech.edu.

Office Hours:

Instructor - 10am-11am on Monday & Friday; and by appointment.

Graduate Teaching Assistant - 3:30-4:30pm on Monday & Wednesday; 9:45-11:15am on Wednesday with Aadityaa Dummbala.

Online TA Tutoring from Chicago - 7:30-9:30pm IST on Thursday with Dulmi Fernando & Amirreza Eshraghi [Zoom Link](#)

Course Communications:

Course Webpage. Check the course webpage regularly for announcements, a lecture log (useful when you miss a class and when reviewing for an exam), and other important links.

I often send emails with announcements and with comments regarding HW problems, Exams, etc. Make sure your Illinois Tech email account is active and working.

Textbook:

[Calculus Volume 1 at OpenStax.org](#).

My Open Math for HW:

[Illinois Tech Math 151 at myopenmath](#)

Use the Course ID and Enrollment Key provided in class to enter this website.

Canvas Page:

[Math 151 Section 1 at Canvas](#).

[Math 151 Section 2 at Canvas](#).

Prerequisites: Basic algebra, Functions and inverse functions, Trigonometry and trigonometric functions, Exponential and logarithmic functions.

Course Description: The primary aim of this course is to develop understanding of tools of single variable calculus. This includes understanding and applying the concepts of limit, continuity, differentiation, and integration. The secondary but equally important aim is the development of good habits of understanding, communicating, and writing mathematics.

The topics include: Elementary analytic geometry, functions, trigonometry; Limits, continuity, tangent lines; the derivative, differentiation of algebraic and trigonometric functions; implicit functions, related rates of change; Applications of the derivative; Anti-derivatives, definite and indefinite integrals, Fundamental Theorem of Calculus; Applications of the Integral.

Grade Break-down: (subject to change)

Homework and participation is worth 15%; Quizzes are worth 10%. Two mid-term exams are worth 20% each. The final exam is worth 35%. The grading scale will be no more strict than A:90-100, B:80-89, C:70-79, D:60-69.

An **improved performance in the final exam** (indicating better understanding of the course material over the whole semester) will help you improve your course grade by replacing a portion of your mid-term exam score by the final exam score. Details will be announced in class.

Class Attendance and Participation: You are expected to attend all the lectures, and participate in the class discussions. You are also expected to read the textbook, including examples not covered in class, and review topics done in class.

*Multiple absences from the Classroom without permission from instructor will result in **deductions from your score** at the discretion of the instructor.*

Examinations: The exam dates and their precise topics will be announced on the course webpage. The final exam will be on all the topics covered during the semester. Make-up exams will be given only in case of a documented emergency.

Quizzes: At the beginning of some recitation classes, there will be a short quiz based on previous HW problems.

Homework Assignment: Homework problems will be assigned regularly on the MyOpenMath at least twice a week. Check and work on these HW problems regularly.

You should first attempt each assigned problem on paper like regular paper and pen assignments. Save this written work for review before quizzes and exams, and in case you have to discuss your solution with the instructor or TAs. We cannot help you if you don't record your work carefully on paper.

It is your responsibility to check for assignments and their due dates; completing each assignment before its posted deadline; completing all required problems; reviewing the feedback provided by MyOpenMath; keeping track of upcoming deadlines; and contacting your instructor promptly if you believe there is a problem with a homework question. You should not wait until immediately before the deadline to begin an assignment. Technical problems, internet problems, forgotten passwords, computer problems, or other last-minute difficulties do not automatically extend a homework deadline. If you believe a MyOpenMath problem is not working correctly, use the Message Instructor button associated with the problem so that the specific question can be identified and reviewed.

HW Discussion Rules: You are allowed to discuss homework problems **only with your classmates, Teaching Assistants, and me**. However, the solutions should be completed by you alone. Recall our discussion in class about meaning and importance of HW as a means for self-study and self-evaluation. Any incident of plagiarism/ cheating (from a person or from any online resource including AI) will be strictly dealt with according to University rules.

AI/LLM/ChatGPT rule: You can not use any such tools for solving HW problems. Recall our discussion in class about learning and AI, and how it has a negative effect on learning as documented by numerous scientific studies. You should of course learn how to use these as a tool for mathematics in the lab when directed by your TA.

Ask for Help: You are encouraged to ask questions during the *Class*, through the *Canvas Discussion Forums*, during the *Office Hours*, during the *TA office hours at Mumbai campus and on Zoom at Chicago campus*, or through *Email to me*. If you are having trouble solving a homework problem, I will be glad to direct you in the right direction. The same goes for any reading in the book, or any concept you have difficulty understanding.

Don't hesitate to ask for help! We cannot help you if you don't take the initiative.