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Gant 141 Syllabus Spring 2025

Calculus/Differentiation (Queens College CUNY)



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Queens College, City University of New York
MATH 141: Calculus Differentiation
Spring 2025
Instructor: Professor Gant
Instructor E-mail: Sara.Gant@qc.cuny.edu

Class Sessions:
Tuesday & Thursday 5:00 PM – 6:15 PM
Kiley Hall Room 326
Recitation Hour Tuesday 4:45-4:45 PM Room KY 420

No class on the following dates:
-Thursday 2/6
-Tuesday 2/18 (Monday conversion day.)
-Thursday 3/6 (Wednesday conversion day.)
-Tuesday 4/15 Spring Break
-Thursday 4/17 Spring Break

Course Requirements and Specifications:
- It is important to check your email account on a daily basis.
- Attendance and participation in all course activities are crucial for your success.
- Homework will be assigned through WebAssign.
- There will be three in-class exams, three short quizzes, and one cumulative final exam.
- The three in-class exams are tentatively scheduled as follows (dates may change at the instructor's discretion)
    - Exam #1: Tuesday, 03-04-25
        - All students are required to bring photo identification to the first exam.
    - Exam #2: Thursday, 04-03-25
    - Exam #3: Thursday, 05-08-25
- Tentative Quiz Dates are: Tuesday 02-11-25, Tuesday 03-18-25, and Thursday 04-24-25.
- The final exam is scheduled for Thursday, 05-22-25, from 4:00 PM-6:00 PM.
- Mastery of pre-requisite mathematics content is pertinent for your success in this course.
- Math 141 will move very quickly. You are expected (and strongly encouraged) to spend at least 12-15 hours outside of class studying each week.
- Extra help available in the learning commons, KY 117, and the extra help center at KY 331.

Grading:
- The three exams will count for 60% of your course grade. The quizzes will count for 5% of the course grade.
- The final exam will count for 25% of your course grade.
- Due to the speed of the course and the content rich topics, homework is an essential part of your success in this class. Homework assignments will count for 10% of your course grade. These assignments will reflect the content of the course. The assignments are a mandatory part of your homework grade and must be completed on time. Failure to submit a graded homework on time will result in a score of 0% for that assignment. These assignments are posted in WebAssign. You will have multiple days to complete them. WebAssign homework will ***not be reopened or extended***. All Web Assignments will be due on Tuesday mornings by noon. You should not wait until the last minute to begin your work for the week. Stay organized, manage your time well, and complete your work on time.
- Exams must be taken at the dates and times which they are scheduled to be administered. Any missed exams will earn a score of 0%. There are ***no make-ups*** for missed exams. If you arrive late to an exam, you will only have the time remaining to complete it.
- Academic dishonesty will be dealt with in accordance with Queens College's policy on academic integrity.

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Required Materials:

- Textbook: Essential Calculus, Second Edition—James Stewart
- WebAssign Access
    - To purchase, visit http://www.cengagebrain.com/course/
    - To log in to WebAssign, visit http://www.webassign.net. **Use class key: qc 6526 2479**
      Or try this link: https://www.getenrolled.com/?courseKey=qc65262479
- TI-84 Graphing Calculator

Course Topics:

- This is a first semester course in single-variable calculus.
- We will study chapters 1, 2 and 3 in the course textbook. Topics will include:
    - Functions and their Properties
    - Limits of Functions
    - Calculating Limits
    - Continuity
    - Limits Involving Infinity
    - Derivatives and Rates of Change
    - The Derivative as a Function
    - Basic Differentiation Formulas
    - The Product and Quotient Rules for Derivatives
    - The Chain Rule for Derivatives
    - Implicit Differentiation
    - Related Rates
    - Linear Approximation
    - Maximum and Minimum Values
    - The Mean Value Theorem
    - Derivatives and the Shapes of Graphs
    - Curve Sketching
    - Optimization (Word Problems)
    - Antiderivatives
    - Areas & Distance
    - Sigma Notation
    - The Definite Integral
    - The Fundamental Theorem of Calculus
    - The Substitution Rule

NOTE: Strong foundational mathematics in Algebra 2, Trigonometry, and Precalculus are necessary to succeed in this course. If you are coming in with below average skills, you will need to work much harder to keep up with the course.

Conduct:

- Cell phones and other electronic devices not being used to take notes, are expected to be silenced and out of sight during class sessions.
- Students are expected to respect themselves, each other, and the course instructor.
- You may not record class sessions or take pictures in class.
- Any behavior that jeopardizes the classroom environment or the safety of others will be reported to the Office of Judicial Affairs.
- As a reminder there is no smoking/vaping on any CUNY campus. This includes within the classroom.

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