The City College of New York, CUNY

Calculus II with Introduction to Multivariable Functions

Math 21200-JW (22102)

Hybrid, Fall 2021

Techniques of integration, improper integrals, infinite sequences and series, parametric equations, vectors and the geometry of space, functions of several variables, and partial differentiation.

Contact Information

Instructor:	John Adamski, PhD – jadamski@ccny.cuny.edu
Website:	johnadamski.com
Office Hours:	W 1:15-2:15pm, join office hours (Meeting ID 891 064 7436)
Lectures:	MW 8-9:40pm, join lectures (Meeting ID 891 064 7436)

Course Materials

This Dropbox folder contains the course syllabus, lecture notes, video recordings of lectures, and additional documents. It is only accessible by students enrolled in this course. Use your CUNY First login information to sign in to Dropbox and access the folder.

MLM: Textbook, Homework, Quizzes

We will be using the text *Thomas' Calculus Early Transcendentals*, 14th edition. You must purchase online access to this text and the MyLab Math (MLM) interactive platform by following the instructions at the end of this syllabus. Note that you will need the following course ID.

adamski47984

Daily homeworks and biweekly quizzes will be accessed and submitted through MLM. Homework from each section of the text will be posted on the day that section is covered in lecture, and it will be due at the beginning of the next class. It is important that you keep up with this pace and do not fall behind. However, late homework submissions will still be accepted. On days when a quiz is scheduled (see course schedule below), the quiz will be timed (20 minutes) and will only be accessible during the first 25 minutes of lecture. During these online quizzes, you are expected to remain in our class Zoom meeting with your camera on and angled in way such that your face, hands, and entire desk area are visible.

Exams

Currently midterm and final examinations are intended to be in-person (see course schedule below). However, due to ramifications of the ongoing COVID-19 pandemic, it is possible that other examination methods may be required. This course may use online examination methods, may give some examinations as oral exams, and may require the use of video cameras during exams. If online examinations are given, the exams will be given during class on Blackbooard. At the department's or the instructor's discretion, any makeup exam, including a makeup final, may be administered as an oral examination carried out either in-person or using video-conferencing software (such as Zoom).

Grades

Your course grade will calculated twice, using the following two rubrics. I will submit to the registrar the better grade.

Rubric A		Rubric B	
10%	Homework		
20%	Quizzes (top 5 out of 6)	20%	Quizzes (top 5 out of 6)
30%	Midterm Exam	35%	Midterm Exam
40%	Final Exam	45%	Final Exam

Attendance

Students are expected to attend all lectures. It is your responsibility to know what happens in class. The best way to fulfill this obligation is to come to every class meeting. I will take attendance (automated with Zoom) because I have a duty to maintain accurate records relating to our course.

Academic Integrity

From The City College of New York's website:

> Academic integrity is an essential part of the pursuit of truth, and of your education. We are all are all responsible for maintaining academic integrity at City College – it is the rock on which the value of your degree is built.
>
> If you cheat on a test or plagiarize by using someone else's work or ideas, you defeat the purpose of your education. In addition, academic dishonesty is prohibited in the City University of New York, and is punishable by failing grades, suspension and expulsion.

All inceidents of suspected cheating will be reported.

Disabilities

Under the Americans with Disabilities Act, all members of the campus community are entitled to equal access to the programs and activities of The City College of New York. If you have (or think that you might have) a disability that may impact your participation in the activities, coursework, or assessment of this course, you may be entitled to accommodations through the AccessAbility Center/Student Disability Services. You can contact them at 212-650-5913, or at disabilityservices@ccny.cuny.edu.

Whether or not you have documentation for accommodations, your success in this class is important to me. If there are aspects of this course that are not accessible to you, please let me know as soon as possible so that we can work together to develop strategies to meet both your needs and the requirements of the course.

Course Schedule

Day	Date	Agenda
1	8/25	Welcome, 7.1 The Logarithm Defined as an Integral
2	8/30	7.3 Hyperbolic Functions, 8.1 Using Basic Integration Formulas
3	9/1	8.1 continued, 8.2 Integration by Parts
4	9/13	**Quiz 1** (7.1, 7.3, 8.1-2), 8.3 Trigonometric Integrals
5	9/20	8.4 Trigonometric Substitution
6	9/22	8.5 Integration of Rational Functions by Partial Fractions
7	9/27	**Quiz 2** (8.3-5), 8.7 Numerical Integration
8	9/29	8.8 Improper Integrals
9	10/4	10.1 Sequences
10	10/6	10.2 Infinite Series
11	10/13	**Quiz 3** (8.7-8, 10.1-2), 10.3 The Integral Test
12	10/18	10.4 The Comparison Tests
13	10/20	10.5 Absolute Convergence, the Ratio and Root Tests
14	10/25	**Quiz 4** (10.3-5), 10.6 Alternating Series and Conditional Convergence
15	10/27	10.7 Power Series
16	11/1	10.8 Taylor and Maclaurin Series, 10.9 Convergence of Taylor Series
17	11/3	Overflow/Review
18	11/8	**In-person Midterm Exam**, 8-9:40pm, room MR3 (all sections listed above)
19	11/10	10.10 Applications of Taylor Series, 11.1 Parametrizations of Plane Curves
20	11/15	11.3 Polar Coordinates
21	11/17	12.1 Three-Dimensional Coordinate Systems
22	11/22	**Quiz 5** (10.10, 11.1, 11.3, 12.1), 12.2 Vectors
23	11/24	12.3 The Dot Product (omit work), 12.4 The Cross Product
24	11/29	12.5 Lines and Planes in Space
25	12/1	12.6 Cylinders and Quadric Surfaces
26	12/6	**Quiz 6** (12.2-6), 14.1 Functions of Several Variables
27	12/8	14.2 Limits and Continuity in Higher Dimensions
28	12/13	14.3 Partial Derivatives
Final	TBD	**In-person Final Exam**, when and where TBD (all sections listed above)

Pearson | MyLab | Math

Student Registration Instructions

To register for MATH 21200-JW Calculus II (22102):

1. Go to https://www.pearson.com/mylab.
2. Under Register, select **Student**.
3. Confirm you have the information needed, then select **OK! Register now**.
4. Enter your instructor's course ID: adamski47984, and **Continue**.
5. Enter your existing Pearson account **username** and **password** to **Sign In**.

   You have an account if you have ever used a MyLab or Mastering product.

   - » If you don't have an account, select **Create** and complete the required fields.
6. Select an access option.

   - » Enter the access code that came with your textbook or that you purchased separately from the bookstore.
   - » If available for your course,
     - Buy access using a credit card or PayPal.
     - Get temporary access.

   If you're taking another semester of a course, you skip this step.
7. From the You're Done! page, select **Go To My Courses**.
8. On the My Courses page, select the course name **MATH 21200-JW Calculus II (22102)** to start your work.

To sign in later:

1. Go to https://www.pearson.com/mylab.
2. Select **Sign In**.
3. Enter your Pearson account **username** and **password,** and **Sign In**.
4. Select the course name **MATH 21200-JW Calculus II (22102)** to start your work.

To upgrade temporary access to full access:

1. Go to https://www.pearson.com/mylab.
2. Select **Sign In**.
3. Enter your Pearson account **username** and **password,** and **Sign In**.
4. Select **Upgrade access** for **MATH 21200-JW Calculus II (22102)**.
5. Enter an access code or buy access with a credit card or PayPal.