

Hunter College of The City University of New York

Department of Mathematics & Statistics, Math 155, Prof. Cherkas

Class Information

MATH 15500: Calculus II, 4 hrs, 4 cr, Fall 2022

Prerequisite: MATH 15000 with a grade of C or better (or the equivalent)

Meets: Mon & Wed, 12:30-2:20, 118 HN (Assembly Hall)
Thursday, 9/29: Classes follow Wed Schedule
No Classes: Mon, 9/5; Mon, 9/26; Wed, 10/5

Instructor: Professor Cherkas

Email: barry.cherkas@hunter.cuny.edu (Please include Math 155 in the subject line)

Office Hours: Mondays, 11:10-12:00pm, Room 919HE (Dept Office). Also, by appointment, on ZOOM.

Textbook: **Essential Calculus, 2nd Edition**, by James Stewart © 2013, 2007 Brooks/Cole, Cengage Learning

Homework: Online homework using LUMEN (<http://ohm.lumenlearning.com>). Please enroll using the Course ID: 63597 and Enrollment Key: iwantanA. The course name is Math 155 - Fall 2022 Cherkas. The cost is \$25 for the semester. If you need financial assistance, please check with Student Services...they have funds set aside for students who require financial assistance with the fee for LUMEN. Due dates for all homework before an exam are the exam dates. Do not ask for an extension, it's time to move on. Also, there are 6 tries on each question to get it correct. To avoid correct answers from being graded as incorrect, be sure to use parentheses to clarify your intent. For example, entering $27^{2/3}$ is interpreted correctly as 27^2 divided by 3 so you will want to use parentheses like $27^{(2/3)}$ to get the answer 9 (the cube root of 27 is 3 and when squared you get 9), if that is what you intend.

Learning Outcomes:

- Apply calculus to inverse functions, including exponential and logarithmic functions, and inverse trigonometric functions
- Learn to work with indeterminate forms and compute their limits using L'Hopitals Rule
- Master new integration techniques including integration by parts, partial fractions, trigonometric substitutions and improper integrals
- Apply arc length formulas and formulating integrals to compute surface of revolutions
- Learn about sequences and series, including power series, alternating series, geometric series, and when they are convergent or divergent
- Learn how to apply various convergence tests including ratio and root tests
- Determine Taylor and Maclaurin series representations for functions
- Apply calculus to parametric curves and polar coordinate

Grading:

The grades of CR and NC are not allowed for any math course except Math 100 and Math 102.

Exam Grade (90% of final course grade). There are three scheduled exams and a final exam:

1. Monday, Oct 3 (10th class; covers material thru class #8)
2. Monday, Nov 7 (18th class)
3. Wednesday, Dec. 7th (27th class)
4. Final Exam Dec 14th (Reading Day); (Time and Location TBA)

The final exam counts twice so there are 5 exam scores in total and the lowest among these 5 is dropped before averaging the remaining 4 exams. If one of the three regular exams is missed, that is the score that is dropped. If you need to miss an exam for any reason, you need to send me an email with an explanation of the reason for missing the exam. There are no make-up exams. If the final exam is the first exam missed, you need at least a 70 average for an Incomplete grade. If the final exam is missed but is not the first exam missed, the course grade is F.

Homework Grade (10% of final course grade). This is for your homework grade on LUMEN, unless your exam grade average is higher, in which case your Exam Grade will be 100% of your final course grade.

Class Participation. Our grading policy includes the possibility of raising certain grades (see chart below) based on substantial class participation, by asking and answering questions. To be eligible, you need to send an email (Subject: Math 155) and let me know that I can add your name to who I should call on for answering questions in class. To be sure you get credit, please send me a brief email after each class that you participate in, mentioning your contribution.

You are expected to share any concerns and ask any questions no matter how naive. If you have a problem it is very likely that you are not alone. Learning means working through misconceptions and confusions.

Course Grade Based on Average	Course Grade After Addon for Class Partition
C	C+
C+	B-
B-	B
B	B+
B+	A-
A-	A

The Following information is required by Hunter College on all course syllabi.

1. Academic Integrity Statement: “Hunter College regards acts of academic dishonesty (e.g., plagiarism, cheating on examinations, obtaining unfair advantage, and falsification of records and official documents) as serious offenses against the values of intellectual honesty. The College is committed to enforcing the CUNY Policy on Academic Integrity and will pursue cases of academic dishonesty according to the Hunter College Academic Integrity Procedures.”

2. ADA Statement: “In compliance with the ADA and with Section 504 of the Rehabilitation Act, Hunter College is committed to ensuring educational access and accommodations for all its registered students. Hunter College’s students with disabilities and medical conditions are encouraged to register with the Office of AccessABILITY for assistance and accommodation. For information and appointment contact the Office of AccessABILITY located in Room E1214 or call (212) 772-4857 /or VRS (646) 755-3129.”

3. Hunter College Policy on Sexual Misconduct: “In compliance with the CUNY Policy on Sexual Misconduct, Hunter College reaffirms the prohibition of any sexual misconduct, which includes sexual violence, sexual harassment, and gender-based harassment retaliation against students, employees, or visitors, as well as certain intimate relationships. Students who have experienced any form of sexual violence on or off campus (including CUNY-sponsored trips and events) are entitled to the rights outlined in the Bill of Rights for Hunter College.
 - a. Sexual Violence: Students are strongly encouraged to immediately report the incident by calling 911, contacting NYPD Special Victims Division Hotline (646-610-7272) or their local police precinct, or contacting the College's Public Safety Office (212-772-4444).
 - b. All Other Forms of Sexual Misconduct: Students are also encouraged to contact the College's Title IX Campus Coordinator, Dean John Rose (jtrose@hunter.cuny.edu or 212-650-3262) or Colleen Barry (colleen.barry@hunter.cuny.edu or 212-772-4534) and seek complimentary services through the Counseling and Wellness Services Office, Hunter East 1123.

CUNY Policy on Sexual Misconduct Link: <http://www.cuny.edu/about/administration/offices/la/Policy-on-Sexual-Misconduct-12-1-14-with-links.pdf>”