

Physics 20300 ST Fall 2022

Instructor:	Prof. Hernán A. Makse, Steinman Hall ST1M-12 hmakse@ccny.cuny.edu
Web-site:	https://hmakse.ccny.cuny.edu/teaching
Class schedule:	Tu and Th 5PM – 6:40PM in MR1
Office hours:	Tu and Th 4:00PM – 5:00 PM at Levich Institute, Steinman Hall ST1M-12
Textbook:	<i>Physics</i> , Any edition by Cutnell and Johnson. Vol 1 Homework numbers refer to 8 th edition posted in website
Grader:	Shah Faisal, smazhar@gradcenter.cuny.edu , Aakash Marthandan amarthandan@gradcenter.cuny.edu

Date:	Reading assignment	Homework (solutions in web-site)
Numbering refers to 8th edition		
Aug 25(Th) 30(Tu)	CH 2: Kinenematics in 1D CH 2	CH2: 8, 12, 20, 29, 34 43, 46, 86
Sep 1(Th) 6(Tu) 8(Th) 13(Tu) 15(Th) 20 (Tu) 22(Th) 27(Tu) 29(Th)	CH 3: Kinematics in 2D CH 3: Kinemaics in 2D CH 4: Newton CH 4: Newton CH 4 CH 5: Circular Motion CH 5 No classes scheduled No class: Monday schedule	CH 3: 4, 39, 47, 75, 77 CH 4: 11, 46, 54, 71, 73, 76, 98, 106, 109 CH 5: 23, 32, 52, 56
Oct 4(Tu) 6(Th) 11(Tu) 13(Th) 18(Tu) 20(Th) 25(Tu) 27(Th)	No classes scheduled TEST 1: CH 2-5 CH 6: Work and Energy CH 6 CH 7: Impulse CH 7 CH 8: Rotational Kinematics CH 9: Rotational Dynamics	CH 6: 40, 44 45, 47, 53, 81 CH 7:13, 23, 25, 34, 38 CH 8: 9, 11, 13, 25, 34 CH 9: 5, 12, 19, 22, 25, 27
Nov 1(Tu) 3(Th) 8(Tu) 10(Th) 15(Tu) 17(Th) 22(Tu) 24(Th) 29(Tu)	CH 9 TEST 2: CH 6-9 CH 10: Harmonic motion CH 10 CH 11: Fluids CH 11 CH 12: Temperature No classes CH 12	CH 10: 9, 18, 29, 30, 33, 36, 82, 83 CH 11: 14, 24, 27, 60, 61, 69, 71, 100 CH 12: 19, 57, 60, 67, 69, 96

Dec 1(Th)	CH 13 Heat	CH 13: 8, 13, 23, 25, 39
6(Tu)	CH 14: Ideal Gas	CH 14: 9, 14, 23, 26
8(Th)	Test 3. CH 10-14	
13(Tu)	Last day: Final Review	

15--21 Final Exam includes all the material covered in the lectures

Course description: PHYS 20300 General Physics I: For majors in the life sciences (biology, medicine, dentistry, psychology, physical therapy) and for liberal arts students. Algebra based introductory physics course covering: kinematics, Newton's laws, equilibrium, gravitation, work and energy, impulse and momentum, rotation and angular momentum, simple harmonic motion, fluids, heat, and thermodynamics. Use of mathematics is restricted to elementary algebra and some trigonometry. PHYS 20300 required for Premed, Preident., Bio-Med., and all Life Science students. Prereq.: MATH 19500.

Reading assignment: Students should read the indicated Chapters in the textbook before coming to class.

Homework: The homework is optional. It is strongly recommended to do all the homework material. Problems and solutions are posted in website of the course.

Lab: All 7 lab experiments must be done to pass the course. Labs take place in MR 407N. Confirm start date at the Physics Department.

Exams: There will be three midterm exams and one final exam (140 min). The final exam will include all the material covered in the semester. You are allowed to bring a sheet of paper with equations to the exams (midterms and final). This policy is subject to change during the semester and it could be updated/cancelled. The lowest grade of the midterms will be dropped.

No make-up will be given for any exam under any circumstances. If you miss one exam, you will automatically drop the missed exam. If you miss two exams, you will be able to pass by doing well in the third exam and final.

Final grade: A+=100-96.67, A=96.66-93.37, A-=93.33-90, and so on.

Grades: Student performance will be based on the following components:

Best Midterm 1	30%
Best Midterm 2	30%
Final exam	40%

If you are a student with a disability who requires accommodations and services, please visit NAC 1/218, and show to faculty official accommodation memo before the exam to proceed to implement accommodations for a given exam.