Physics 110 (3538) Summer 2021 Syllabus - Hunter College of CUNY

Professor: Dr. Yao Chu
Email: yc904@hunter.cuny.edu, for issues of a personal nature only, no work via email as attachment accepted, attached work will be automatically deleted)

Class Time/Room: M/T/W/R 11:50 am – 1:24 pm, 5/27/2021 - 7/12/2021, Room: Zoom

Office Hours: M/T/W/R 1:25 pm – 1:55 pm Zoom (by appointment)

No Classes: M 5/31/2021, and M 7/5/2021

Last Class and Last Quiz: M 7/12/2021

Course Description

Topics include mechanics, fluids, vibration and waves, and thermodynamics. Students are expected to do all the reading assignment before the lecture. Homework problems are assigned through Mastering Physics. It is required that students do all the problems. There is tutoring available at the Physical Science Learning Center in the Library

Textbook

Physics: Principles With Applications 7th Edition, Giancoli, Mastering Physics with Pearson eText -- ValuePack Access Card ISBN 9780321869661 (eText with access card) or 9780321974990 (eText and loose leaf with access card).

Mathematics Pre-requisite

MATH 12000, MATH 12400, MATH 12500, MATH 12550 or MATH 15000.

Participation and Attendance

Full participation is only possible for on-time attendance: In addition to lectures, important information regarding exams, homework, schedule etc. are also communicated during class usually at the beginning or at the end of class. It is your responsibility to find out what information is disseminated in class if you miss a class, come in late or leave early.

Homework

Homework assignments are assigned via Mastering Physics. No late assignment is accepted.

Lab

1. The lab is an essential part of the course, and no grade is given without completion of the lab.
2. The lab is 15% of the total grade.
3. Student must complete a minimum of 9 labs out of 11 to get a lab grade. If a student completes less than 9 labs, he/she will receive a zero for the missing lab(s).
4. Students who repeat the course must repeat the lab.

Course grade

There are six pop quizzes (unannounced, each covering 2-3 chapters, 13 questions) The grading policy is described in the table below.

Quizzes (best 5 out of 6, 13% each)	65%
Homework (Mastering Physics, no late work accepted)	10%
Class Participation (-0.5/0.25% for each absence/tardiness)	10%
Lab (see lab instructor for details)	15%
Total	100%

The exam questions are problem solving and conceptual types. There is no make-up exam! Please be aware that the instructor in this course will require that camera and audio be on during exams. There will be no rounding up in Final Grade.

Credit/No Credit Grading Option

You may choose to be graded in this course on a Credit/No Credit basis. Before selecting this option, check with your departmental adviser and be aware that many colleges, professional schools, and employers may look with disfavor on Credit/No Credit grades and may even convert Credit to C and No Credit to F for their purposes, as described in the Hunter College Catalog.

Academic Integrity

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 Procedure

Accessibility

In compliance with the American Disability Act of 1990 (ADA) and with Section 504 of the Rehabilitation Act of 1973, Hunter College is committed to ensuring educational parity and accommodations for all students with documented disabilities and/or medical conditions. It is recommended that all students with documented disabilities (Emotional, Medical, Physical and/ or Learning) consult the Office of AccessABILITY located in Room 1214 B East building to secure necessary academic accommodations.

Hunter College does not discriminate against any student on the basis of pregnancy or related conditions. Absences due to medical conditions relating to pregnancy will be excused for as long as deemed medically necessary by a student's doctor and students will be given the opportunity to make up missed work. Students needing assistance can seek accommodations from the Office of AccessABILITY

Sexual Harassment

It is the policy of The City University of New York and Hunter College to prohibit sexual harassment of employees and students. It is a violation of policy for any member of the college community to take action against any individual for reporting sexual harassment.

Hunter College has a sexual harassment panel, appointed by the President, which consists of faculty, staff, and students. The panel is charged with ensuring that the college community is familiar with the sexual harassment policies of Hunter College and the City University. Other responsibilities include investigating reports of sexual harassment and forwarding findings and recommendations to the college President. A member of the faculty, staff, or a student should report sexual harassment occurrences to a member of the Sexual Harassment Panel or to the Dean of Students, and, if required, to the local city police precinct. Reporting information can also be found in college catalogs and schedule of classes.

The entire Hunter College Sexual Harassment Policy can be found on the Human Resources website.

http://www.hunter.cuny.edu/publicsafety/repository/files/Sexual_Assault_PolicyBOTAugust20103.pdf

Special note

It is strictly prohibited to submit any course materials, test and your work in this course to any other site. If it is found, you will receive a zero for the test or assignment at a minimum and will be reported as academic dishonesty.

Materials to be covered (as of 5/22/2021)

Week	Chapter	Exams	Additional problems
1	2: Kinematics in 1-D	Ch 2, 3	8, 11, 16, 19, 21, 30, 31, 32, 36, 46, 48, 53
2	3: Kinematics in 2-D, Vectors		5, 9, 10, 12, 13, 21, 23, 31, 32, 36, 48, 56, 58
3	4: Dynamics: Newton's Laws	Ch 4, 5	7, 9, 11, 16, 23, 24, 27, 34, 42, 47, 50, 65
4	5: Circular Motion		7, 8, 9, 12, 15, 17, 22, 31, 32, 50, 52, 56, 68
5-6	6: Work and Energy	Ch 6, 7	19, 22, 24, 25, 29, 39, 40, 41, 44, 48, 69, 90
7	7: Linear Momentum		10, 11, 18, 21, 29, 31, 35, 39, 42, 52, 77, 78
8-9	8: Rotational Motion	Ch 8, 9	14, 20, 22, 23, 27, 29, 35, 39, 46 58, 69, 72
10	9: Static Equilibrium		1, 12, 13, 14, 18, 19, 27, 29, 30
11	10: Fluids	Ch 10, 11	13, 14, 18, 25, 26, 35, 40, 50
12	11: Oscillations and Waves		5, 8, 20, 22, 23, 25, 30, 40, 42, 52, 55
~~11~~	~~13: Temperature and kinetic theory~~	Ch 15	~~2, 7, 17, 20, 25, 27, 31, 37, 53, 54~~
~~12~~	~~14: Heat~~		~~2, 6, 12, 13, 14, 17, 28, 30, 34, 38, 47~~
13	15: Thermodynamics		1, 4, 6, 7, 8, 10, 13, 25, 30, 39, 41