Department of Physics and Astronomy
Physics 266 (Fall 2022) - University Physics III

Instructor: Dr. Nirmal Ghimire

Lecture: Enterprise Hall 178 (on campus in person), 10:30a-11:45a (M & W)
Exam: Enterprise Hall 178 (on campus in person), Sept. 26
Office: Krasnow Institute - Room 104
email: nghimire@gmu.edu

Office Hours

- Wednesdays 1p-3p (in-person)
- Remote format: Please send email for time and zoom link

Text Book: University Physics with Modern Physics, vol.1, 2 & 3, 14th Edition, by Young and Freedman (with Mastering Physics)

Prerequisites

Undergraduate level PHYS 260 Minimum Grade of C or Undergraduate level PHYS 260 Minimum Grade of XS

Grading

- Exam #1 (Sept. 26 Mon 10:30a-11:45a) will be your final exam - 80%
- Homework: 10%
- Recitations: 10% (You must attend your registered recitation sessions.)

Important Dates:

Sept 06: last day to drop classes with 100% tuition refund
Sept 13: last day to drop classes with 50% tuition refund
Sept 14-Sept 27: unrestricted withdrawal period
Sept 28-Oct 24: selective withdrawal period (100% tuition liability)
Nov 30: Last class

Website

Blackboard. Homework, reading assignment, lecture notes, and homework solutions will be posted here. Students should upload their homework and exams to the Blackboard.

Course description

Physics 266 - Introduction to Thermodynamics

Introduction to Thermodynamics is a one credit course and it corresponds to the first third of University Physics III (Phys 262).

If you are registered for Phys 266, you are responsible for all materials from Ch. 17 to Ch. 20 in the textbook and you are required to attend ALL classes from **August 22 to September 26.**

General Class Policy

Please read this section thoroughly.

Honor Code: It is expected that students adhere to the George Mason University Honor Code as it relates to integrity regarding coursework and grades. The Honor Code reads as follows: **To promote a stronger sense of mutual responsibility, respect, trust, and fairness among all members of the George Mason University community and with the desire for greater academic and personal achievement, we, the student members of the University Community have set forth this: Student members of the George Mason University community pledge not to cheat, plagiarize, steal and/or lie in matters related to academic work.** More information about the Honor Code, including definitions of cheating, lying, and plagiarism, can be found at the Office of Academic Integrity website at http://oai.gmu.edu.

Recitations

Recitations

You MUST attend all your recitations. 10% of your grade will be evaluated on your participation during recitations.

Recitations are scheduled for every week on the following dates and your first recitation section will start in the **first** week of classes. Your recitation instructor is Prof. Higginbotham (khigginb@gmu.edu). You need to sign up for either one of the following sections:

- Section 301: F 1:30p-2:20p
- Section 302: F 2:30p-3:20p.

Homework

Homework assignments are 10% of your total Grade. You are encouraged to work on your homework assignments together in small groups but copying homework from each other is not allowed. Homework is due Sunday 11:59 pm. Late homework will not be accepted except with VALID medical excuse.

The first assignment is a simple tutorial helping you to learn to use the Mastering Physics Website. Although this exercise will not be counted toward your grade; you need to get yourself familiar with Mastering Physics starting in the second week of class.

Tutoring Information: College of Science Tutoring Center, Planetary Hall Basement Room 2
Time: Please check with the Department of Physics' front office in Planetary 203

Examination Policy

The exam will typically have 4 problems (or questions). Calculators will be needed for quantitative problems. Materials covered in these two exams will be from Ch. 17-20. For each exam, one problem with the lowest points will be dropped.

Although every effort will be made to adhere to the examination schedule given in the syllabus, the instructor reserves the right to alter the examination schedule during the semester as the necessity arises. If the examination date falls on an unexpected school closing date due to weather or other events, the examination will be postponed to the next regularly scheduled class meeting.

It is the responsibility of each student to attend classes during scheduled examinations as listed in the syllabus regardless of work or family considerations. Make-up exams will be given only to students with VALID medical excuse and they should contact the instructor as soon as they return to school.

THERE ARE NO DROP OPTIONS FOR EXAMS.

If you are a student with a disability and you need academic accommodations, please see me and contact the Disability Resource Center (DRC) at 993-2474. All academic accommodations must be arranged through the DRC.

Course Content

Thermodynamics

Chapter 17: Temperature and Heat
Chapter 18: Thermal Properties of Matter
Chapter 19: The First Law of Thermodynamics
Chapter 20: The Second Law of Thermodynamics

Privacy

Students must use their MasonLive email account to receive important University information, including communications related to this class. I am not allowed to respond to messages sent from or send messages to a non-Mason email address.

Notice of mandatory reporting of sexual assault, sexual harassment, interpersonal violence, and stalking

As a faculty member, I am designated as a "Non-Confidential Employee," and must report all disclosures of sexual assault, sexual harassment, interpersonal violence, and stalking to Mason's Title IX Coordinator per University Policy 1202. If you wish to speak with someone confidentially, please contact one of Mason's confidential resources, such as Student Support and Advocacy Center (SSAC) at 703-380-1434 or Counseling and Psychological Services (CAPS) at 703-993-2380. You may also seek assistance or support measures from Mason's Title IX Coordinator by calling 703-993-8730, or emailing titleix@gmu.edu.