

Phys 211

Course Outline

- Course: Physics for Science and Engineering- I (Phys 211): Section 1.
- Instructor: Dr Alakabha Datta
- Office: 209 Lewis Hall
- Meeting: MWF 12 noon to 12.50 pm, CSTI Rm 122
- Office Hours: Tuesday 1.30 - 2.30 pm or in person or zoom appointment
- Email:datta@olemiss.edu, datta@phy.olemiss.edu
- Phone: (662) 915-5611
- Course homepage: Check Blackboard.
- Google Classroom: <https://classroom.google.com/c/NzA4MTMzMDUyNTg2?cjc=qkto7kp>
- Google classroom code: qkto7kp

Required Text and Material

- Text: University Physics Volume 1, by OpenStax. <https://openstax.org/details/books/university-physics-volume-1>

This is an open source textbook from OpenStax at Rice University. It is available for free online in a variety of formats, including html, pdf, Apple iBooks, and Amazon Kindle. If you prefer, you can also purchase a print version via OpenStax on Amazon.com. If you do choose to buy from Amazon, be sure to use the link on the textbook page at openstax.org to ensure that you get the official OpenStax print version.

- Material :
 1. Online homework and classroom activity system: Webassign (optional). The system can be accessed through Blackboard (blackboard.olemiss.edu). Students must purchase access to Webassign for this class.
 2. Scientific calculator. Any calculator with trigonometric functions, exponential functions and scientific notation.

Course Goals

- Course Description: This is a three credit-hour, calculus-based physics course which covers basic mechanics. In this course, we will use a few fundamental models to describe a wide range of physical phenomena. Topics to be covered include motion, forces, momentum and energy.

- Course Corequisites:
 1. Math 262 OR (Math 261 and Physics 201)
 2. Physics 221
- Course Objectives: Students should be able to complete the textbook learning objectives given in each section. Homework, in class activities, quizzes, and tests are intended to assess whether students have achieved these objectives.

Teaching Method

I will submit videos and pdf of my lectures on google classroom. In class I will spend 10 mins reviewing the videos, 30 mins working out problems, doing demos and answering questions about the lectures and the last 10 mins, for two days of the week, will be the quiz which will also account for participation grade. On the day of no quiz we I will solve problems and answer questions for 40 minutes.

Tutoring Session

On Thursdays from 5.30 pm - 7.00 pm there will be a tutoring session except for the weeks where we have exams.

Homework policy

There will be a written homework assigned almost every week to be turned in a week's time. There is no late homework submission unless you provide a valid reason.

Quizzes

Twice a week there will be a 10 minutes quiz. 50% of the score is for participation and the other 50 % for correct answers.

Exams

There will be two exams with dates given below. The first exam will cover cha 1-6, the second exam Ch 7-10 and the final exam will be from Ch 11-14. In the final exam there will be extra credit problems from Ch 1-10.

Important Dates:

See the academic calendar (<https://registrar.olemiss.edu/final-exam-schedule-fall-2024/>)
Test dates and topics are tentative and subject to change. The final exam date is fixed and cannot be changed.

- Exam 1 : Thursday, October 3, 5:30 - 7:00 pm
- Exam 2 : Thursday, November 7, 5:30 - 7:00 pm
- Final Exam Friday, December 13th, 12 noon - 2.00 pm

Grading

- Homework: 15 %
- Class Quizzes 10%

- Mid Term Exam I and II: 50%
- Final Exam: 25%

An overall course average of the following percentages will guarantee the corresponding letter grade:

90 %	A
85 - 89 %	A-
80 - 84 %	B+
75-79 %	B
70 - 74%	C+
65 - 69%	C
60 - 64 %	D

Topics will be taken from

1. Chapters 1-10 in the book
2. Part of chapters from 11-15

Attendance

There is no attendance requirement. However if you miss an exam or cannot turn in homework on time because of illness I will require a doctor's note. If you will be away on other reasons inform me prior to your absence and get a note if applicable.

Policies

- **Academic Integrity:** Every student of the University of Mississippi, by virtue of choosing to be part of the university community agrees to abide by the University of Mississippi Creed and the UM Academic Integrity Policy which covers academic integrity. Please consult the M-Book, Academic Integrity document for details on university policy and the academic creed. Cheating is forbidden and will result in a zero grade on the assignment. If a second case of cheating occurs, this will result in an F for the entire course. UM Creed The University of Mississippi is a community of learning dedicated to nurturing excellence in intellectual inquiry and personal character in an open and diverse environment. As a voluntary member of this community:
 1. I believe in respect for the dignity of each person
 2. I believe in fairness and civility
 3. I believe in personal and professional integrity
 4. I believe in academic honesty
 5. I believe in academic freedom

6. I believe in good stewardship of our resources
 7. I pledge to uphold these values and encourage others to follow my example
- **Copyright:** All materials distributed electronically and in hard copy in this class are protected under intellectual copyright. Any attempt to upload these documents onto the Internet (or to distribute them by some other means) or to profit from the distribution (by Internet or other means) of these documents constitutes theft and will be in violation of intellectual property law and the UM Academic Conduct Code unless expressly permitted for by the instructor. Accessing such materials for your own use is also in violation of the UM Academic Conduct Code.
 - **Disability Access and Inclusion:** Disability Access and Inclusion: The University of Mississippi is committed to the creation of inclusive learning environments for all students. If there are aspects of the instruction or design of this course that result in barriers to your full inclusion and participation, or to accurate assessment of your achievement, please contact the course instructor as soon as possible. Barriers may include, but are not necessarily limited to, timed exams and in-class assignments, difficulty with the acquisition of lecture content, inaccessible web content, and the use of non-captioned or non-transcribed video and audio files. If you are registered with SDS, you must log in to your Rebel Access portal at <https://sds.olemiss.edu/rebel-access-portal> to request approved accommodations. If you are NOT registered with SDS, you must complete the process to become registered. To begin that process, please visit our website at <https://sds.olemiss.edu/apply-forservices>. SDS will: 1. Complete a comprehensive review to determine your eligibility for accommodations, 2. If approved, disseminate to your instructors a Faculty Notification Letter, 3. Facilitate the removal of barriers, and, 4. Ensure you have equal access to the same opportunities for success that are available to all students. If you have questions, contact SDS at 662-915-7128 or sds@olemiss.edu.
 - **Audio and video recording:** Audio and/or video recording of class lectures is not allowed unless explicit permission is given by the instructor. Permission will only be given if the student has a Student Disability Services request. In such cases, recordings may only be used by the student to whom permission is given and all recordings must be deleted at the end of the semester. Recordings may not be distributed online or elsewhere.