

## Physics 212: College Physics

- Also known as: PHY 212, CRN 12628, Sec 830, Credits 4.0.
- Instructor: Dr. Shashi Kanbur, Rm 256 Shineman, SUNY Oswego.
- Email: shashi.kanbur@oswego.edu, Tel: 2144.
- Lectures: MWF, 3.00-3.55pm, Shinemann 132.
- Office Hours: MWF 11-12pm, or make an appointment by phone or email or just drop in.
- Book: "College Physics," by Serway and Vuille, eleventh edition.
- Lab Book: Lab Manual for College Physics II - on Blackboard.
- Final Exam: Wednesday May 11 2022, 2pm-4pm.
- Layout of the Course:
  - Traditional lectures, some class demonstrations, some computer demonstrations.
  - Algebra based.
  - Reading Assignments, homeworks, two in class exams and a comprehensive final.
  - The Lab is a required part of the course and contributes about 25% of the final grade for this course. If you fail the Lab you will fail PHY 212 irrespective of how you are doing in the class.
  - The homeworks contribute about 35% of the grade and the 3 exams contribute about 40% of the grade.
  - During the class, we will frequently discuss problems similar to those on the exams and homework. You can collaborate on homework but the final written solution should be your own and you should understand what you have done.
  - You will be expected to read ahead and come to class having done this reading. In class we will go over examples/do problems that will help you to understand the subject. This is not a class about memorization of formulae. All exams will be open book. Please bring your text book to the class.
  - Learning Goals:
    - \* i) Students will demonstrate a knowledge of Introductory Physics as given in the Chapters of Serway and Vuille 11th edition specified below.

- \* ii) Students will be able to apply the principles behind this Introductory Physics in a variety of situations and problems.
- Syllabus
  - \* Review
  - \* Topic 15: Electric Forces and Electric Fields.
  - \* Topic 16:: Electrical Energy and Capacitance.
  - \* Topic 17: Current and Resistance.
  - \* Topic 18: Direct-Current Circuits.
  - \* Topic 19: Magnetism.
  - \* Topic 20: Induced Voltage and Inductance.
  - \* Topic 21: Alternating-Current Circuits and Electromagnetic Waves.
- This is not set in stone - may change as the semester progresses.
- There is a lab component consisting of some weekly lab experiments which counts 25 This is not a course on the memorization of formulae. These will be given if needed.
- Final comprehensive exam. Unless its a medical emergency, there will be no makeup for this final comprehensive exam. This is Friday May 17, 2019, 10.30am, in SHI 196.
- There will be makeups for the two in class exams but I strongly urge you to take these on the scheduled days.
- Problem sets - with perhaps 4-5 questions most weeks. Implemented through WebAssign. Due the following week. Can discuss the assignments with each other but make sure you understand the final solution. Problem sets are important since the in class exams and final will consist of questions very similar to the exams. Its in your interest to show your working in these problem sets and also the exams since I wont just give marks for the final answer.
- Will give lecture notes which contain all the required material - also in the book.
- Lectures will consist of going over these notes, going over more worked problems and real-life examples.
- How do I succeed in this class?
  - \* Come to class; bring the book and lecture notes, plus a pencil, notepad and a calculator.
  - \* Do reading assignments; Do assigned homeworks; go over worked problems; go over homework and homework solutions. Think about the material - try to understand the concepts.
  - \* Stay current.

- \* Ask questions: in class, by appointment, office hours. If I do not know the answer, will try to get an answer by the next class.
  - \* If you require assistance through the Disability Support Services office get in touch with the office by phone (x3358) or email [dss@oswego.edu](mailto:dss@oswego.edu). The office is located in room 183 in the Campus Center. The staff is dedicated to meeting the needs of students with special needs and provides support services, the availability of adaptive technologies and other assistance required to meet the mission of helping all students succeed.
- Intellectual Integrity It is important that all students recognize their responsibility to uphold the highest standards in the area of academic integrity. The College policy is stated in the Student Handbook, in the section entitled "Judicial Policies." The definition of Intellectual Dishonesty includes these statements:
- \* a) "Examples of intellectual dishonesty include making up or falsifying data etc. It may also take the form of intellectual carelessness, which, while not intentionally deceptive, has the same outcome and may be treated as academic dishonesty."
  - \* b) "Some examples of cheating include, but are not limited to...copying an examination, assignment or other work to be evaluated... inappropriate collaboration on work to be evaluated...buying/selling examinations, term papers, etc.... submitting work for which credit has already been received in another course without the express consent of the instructor".
  - \* c) Some examples of plagiarism include utilizing a direct quotation without citing the course...,paraphrasing the ideas, interpretation, expressions of another without giving credit...and representing the thought of others as their own by failing to acknowledge or document sources."
- The procedures for dealing with Intellectual Dishonesty are outlined in the Student Handbook. Penalties can include failure of a class.
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- Clery Act/Title IX Reporting Statement: SUNY Oswego is committed to enhancing the safety and security of the campus for all its members.

In support of this, faculty may be required to report their knowledge of certain crimes or harassment. Reportable incidents include harassment on the basis of sex or gender prohibited by Title IX and crimes covered by the Clery Act. For more information about Title IX protections, go to <https://www.oswego.edu/title-ix/> or contact the Title IX Coordinator, 405 Culkin Hall, 315-312-5604, [titleix@oswego.edu](mailto:titleix@oswego.edu). For more information about the Clery Act and campus reporting, go to the University Police annual report: <https://www.oswego.edu/police/annual-report>.