

## General University Physics III

- Also known as: PHY 313, CRN 91458, Sec 800, Credits 3.0.
- Instructor: Dr. Shashi Kanbur, Rm 124A, Snygg Hall, SUNY Oswego.
- Email: kanbur@oswego.edu, Tel: 2679.
- Office Hours: Monday 2-3pm, Wednesday 2-3pm, Friday 2-3pm, or make an appointment by phone or email.
- Lectures: MWF, 11.30am-12.25pm.
- Book: "Fundamentals of Physics" by Halliday, Resnick and Walker, eighth edition.
- Layout of the Course:
  - Traditional lectures, some class demonstrations, some computer demonstrations.
  - Calculus based.
  - Reading Assignments, homeworks, two in class exams and a comprehensive final.
  - Syllabus
    - \* Magnetism (perhaps revision):
    - \* Faradays Law and Inductance (perhaps revision):
    - \* Electromagnetic waves:
    - \* Oscillatory Motion:
    - \* Mechanical Waves:
    - \* Superposition and Standing Waves:
    - \* Reflection and Refraction of Light:
    - \* Image Formation by Mirros and Lenses:
    - \* Wave Optics:
    - \* Fluid Dynamics:
    - \* Special Relativity:
- This is not set in stone - may change as the semester progresses.
- Final exam: 30%, In class exams: 40% Problem sets: 30%.
- Two in class exams plus a comprehensive final. Exam dates of these in class exams depend on how we progress but I will give plenty of notice. 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.
- There will be makeups for the two in class exams but I strongly urge you to take these on the scheduled days.
- Reading assignments for homework - sometimes followed by in class quiz on that assignment. The purpose of these reading assignments is only to prepare for the presentation/discussion of material in class.
- Problem sets - with perhaps 4-5 questions most weeks. Due the following week. Grades and solutions follow the week after. Can discuss the assignments with each other but final, submitted solution must be your own. If you fail to hand in an assignment on time, you will get 0 for that assignment. 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.
- I will take attendance in class though it doesn not count to your final grade.
- 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 dont know the answer, will try to get an answer by the next class.