Lectures: M, W 1:00-1:50 pm, Stratton 113
Recitations:
  Section 001: WF 10:00-10:50am, Matheson 310
  Section 002: WF 11:00-11:50am, Curtis 454
  Section 003: WF 12:00-12:50pm, Randel 328B
  Section 004: WF 2:00-2:50pm, Curtis 455
  Section 005: WF 3:00-3:50pm, Curtis 255B
  Section 006: WF 2:00-2:50pm, Academic 111
  Section 007: WF 4:00-4:50pm, Curtis 343
  Section 008: WF 9:00-9:50am, Academic 111
  Section 009: WF 3:00-3:50pm, Curtis 352
  Section 010: WF 4:00-4:50pm, Curtis 352
Labs: All labs are held on the 7th floor of Disque. Check www.drexel.edu/src to see whether you are in Disque 702 or 711.
  Section 060: T 1:00-2:50pm
  Section 061: W 9:00-10:50am
  Section 062: T 11:00am-12:50pm
  Section 063: Th 11:00am-12:50pm
  Section 064: T 9:00-10:50am
  Section 065: Th 9:00-10:50am
  Section 066: T 3:00-4:50pm
  Section 067: W 11:00-12:50pm
  Section 068: W 9:00-9:50am
  Section 069: T 11:00am-12:50pm
  Section 070: W 11:00am-12:50pm
  Section 071: T 9:00am-10:50am
  Section 072: T 1:00pm-2:50pm (Note: meets on odd weeks!)
  Section 073: T 3:00pm-4:50pm
Course Staff
  • Lecturer: Prof. David Goldberg (goldberg@drexel.edu)
    Office: Disque Hall, Room 810
    Phone: (215) 895-2715
    Office Hours: M,W,2-3, and by appointment
  • Teaching Assistants:
    – Mr. Jeff Blomquist (jab344@drexel.edu)
Office: Disque 809  
Office Hours: TBA  
Recitations: 5,7  

– Mr. Michael Kaczmarczik (mck53@drexel.edu)  
Office: Disque 809  
Office Hours: TBA  
Recitations: 2,6, TDEC 142-502 (Tuesday)  

– Mr. Sai Kumar (saikumar2@gmail.com)  
Office: TBA  
Office Hours: TBA  
Recitation: 10, TDEC 142-501 (Monday)  

– Ms. Sushmitha Rajakutty (sr372@drexel.edu)  
Office: Disque 705  
Office Hours: Wednesday 2pm-4pm  
Recitations: 3,9, TDEC 142-507 (Wednesday)  

– Ms. Aarthi Sundar (as545@drexel.edu)  
Office: Disque 705  
Phone: x0574  
Office Hours: Thursday 2-4pm  
Recitations: 1,4,8  

• Lab Instructors  
   – Darshi Chovatia (darshi.bharat.chovatia@drexel.edu)  
   – Sai Kumar Somayajula (sks56@drexel.edu)

Textbooks  
Laboratory Manual, which will be made available online.  

Course Webpage  
I will make certain materials available, including images, links, and copies of documents handed out in class on the web:  
http://www.physics.drexel.edu/~goldberg/Physics-101  

Grading Policy  
First, a word about academic honesty: Discussion is strongly encouraged when working through problem sets, and, since labs are done in groups, it is expected that your write-ups will be similar. Here’s a guideline – if a friend describes how to go about solving a problem to you without specifically writing equations, then you are fine. If, however, you directly transcribe the work of another, you are plagiarizing their work.
• 15% – **Labs:** There will be four labs over the course of the term. The criteria for evaluation are described below.

• 20% – **Homework:** Homework will be given weekly. It will be assigned in Friday Recitation, and will be due in class the following Friday at the beginning of your section. A 10% penalty will be given for each day of lateness. The lowest homework will be dropped from your final average.

• 30% (15% each) – **Midterms:** We will two exams in this class, in addition to the final, in weeks 4 and 8. Both will be held during the common exam period (8am-9am), and both will be closed book. I will pass out a formula sheet 1 week prior to each exam. An identical formula sheet will be attached to your exam. Additional details will be given as the exam gets closer.

• 25% – **Final Exam:** There will be a cumulative final exam given at the end of term.

• 10% – **Class Participation:** Attendance and class participation are very important to the process. Attendance will be taken in recitation every week, and occasionally (and randomly!) in lecture, and discussion will be noted in lecture.

**Introduction to the Course**

The course description reads,” First of a four course sequence teaching fundamental physics to engineering and science majors. Topics include: description of motion, inertial and non-inertial frames, special relativity, Newton’s Laws, translational and rotational equilibrium, one- and two-dimensional motion, fundamental forces, inverse square laws, Gauss’ Law, Bohr’s quantization, rotational dynamics, potential energy, black holes, determinism and chaos.”

In fact, this is an understatement. We are going to be doing a lot of introductory physics in this course. We will typically cover about a chapter each week, so make sure you are up-to-date on your readings.

**Lectures**

We will meet twice a week for 1 hour. Lectures will consist primarily of information based on the readings, though there will also be some in-class demos. Reading assignments will be given out in class. You are obviously expected to attend all lectures, and there is an explicit class participation component to your final mark. In other words, ask questions!

Prior to each lecture, you should read the assigned material. The lecture is not a substitute for the textbook (or vice-versa), but rather a supplement to it.

**Recitation**

Traditionally, recitation is a much more informal part of the class. You will meet in smaller (approximately 20/section) groups with your TA, discuss the homework, do additional problems from the book, and go over concepts that you are having difficulty with. Recitation sections are a required part of the course, and your attendance and participation will be included in the class participation component of your grade.

Homeworks will be handed out and collected in recitation each friday.

**Labs**

In addition to theory, you will be expected to carry out experiments to prove the concepts discussed in class. We will meet for 2 hours, every other week (beginning in the 2nd week), and you will do the experiments in groups of 2-4.
**Note:** Odd numbered labs sections will meet ONLY in odd numbered weeks (3,5,7,9), and even numbered sections will meet ONLY in even numbered weeks (2,4,6,8). One exception: Section 72 meets on **odd** weeks (I know, the schedule is just that wacky).

- You are expected to read over the purpose and theory prior to lab section, as well as completing the pre-lab work. The pre-lab will be collected at the beginning of the lab period (for grading). You will get a 10% penalty if you haven’t done this an advance, and you will not be able to begin until it’s completed.

- Students in each group work together as a team to collect data. The students themselves decide upon the responsibilities of each group member, although all should make roughly equal contributions. Each group must submit a copy of the data sheet, with **all** members signing it before leaving the laboratory. Each student should also keep a copy of the experimental data for use in his/her lab report.

Write-ups are due within 1 week of your lab in the TA box in the grad student office (Disque 705). Please put the name of your TA on the front page. Make-up labs are allowed only in the case of illness or other serious situation. Approval to take a make-up lab can be granted only by Dr. Goldberg.

The lab schedule is as follows:

- Week 2/3 – The Speed of Light
- Week 4/5 – The gravitational constant
- Week 6/7 – Springs and Hooke’s Law
- Week 8/9 – Collisions