

Syllabus of Physics 0847: How things work – everyday life physics, Section 001, fall 2014

1. Time and location

1:00 PM – 1:50 AM (Monday, Wednesday, Friday), Barton Hall Room 130

2. Text book

Primary: “*Conceptual physics*” by Paul Hewitt, ISBN: 0321909100

3. Contents covered in this semester

Law of motion I (Newton’s 1st, 2nd, and 3rd laws), Law of motion II (linear momentum, angular momentum, mechanical energy), Mechanical objects, Mechanical waves and stability, Heat and ideal gases, Fluids, Electricity, Electromagnetic waves, Atomic and nuclear physics, Special topic I: global warming and physics, Special topic II: hybrid cars and physics. Strongly encourage students to suggest other special topics that you feel interesting.

4. Grading policy

40% midterm exam, 40% final exam, about 5-10% attendance, 15% of the homework (essay) assignment. To pass the course, the students are required to take both midterm and final exams. The essay assignment is not mandatory to pass this course. However, it will help you to get better grades.

5. Office hour and contact information

Office hour: 2:00PM-3:00PM every Monday, Wednesday, and Friday

Professor: Xifan Wu, E-mail: xifanwu@temple.edu, Office: Barton Hall 413

Please make appointments if you want to ask question at other times.