General Physics B I syllabus, Fall 2019

Textbook: Richard Wolfson, Essential University Physics, 3-rd Edition

Time: Tuesday and Friday, 8:30 – 9:50 AM.

Exams: The exams will be held at 8:20 – 9:50 AM at the same place as regular classes. No dictionaries, papers, or personal notes are allowed. You may bring a non-programmable calculator. On the exam day, if there is an official announcement to stop classes due to poor weather (typhoon or earthquake), the exam will be postponed to the next class day.

Grades: 25 % each for the two mid-term and final exams. 25 % from homework and quiz.

Homework:

The table below lists the problem sets assigned for this class. Log on to the NTHU moodle system to submit your homework. Note that the numbers quoted in the problem sets may be different online, so you need to solve the problems accordingly. The due dates for the problem sets are listed on the moodle system. The rest of the problems are for your own sake. For the mid-term and final exams, these problem sets and examples in the textbook will be used as references. The website of the online homework system is: http://moodle.nthu.edu.tw/course/view.php?id=33039

Tutorial class:

R019 of the Physics Building basement, 19:00 – 21:00 (The schedule will be posted on moodle system). In case of the access control at night, please enter the building by Door No.3 (south entrance, near the Mong Man Wai Building).

Other:

Please turn off your cell phones during classes and exams. If you cannot attend the exam, ask for permission beforehand otherwise you will not get any points for that exam.

Homework:

For the first midterm exam	Ch 7: 31, 33, 43, 50, 54, 55, 57, 58。
Ch 5: 26, 39, 41, 55, 60, 69, 71, 72。	Ch 8: 29, 37, 43, 50, 52, 54, 63, 66。
Ch 6: 17, 45, 47, 68, 70, 81, 84, 86。	Ch 9: 39, 41, 59, 61, 73, 77, 82, 93。
For the second midterm exam	**For the final exam**
Ch 10: 28, 37, 45, 57, 64, 68, 70, 75。	Ch 15: 28, 42, 46, 54, 61, 64, 66, 69。
Ch 11: 17, 29, 35, 40, 42, 53, 57, 59。	Ch 16: 27, 33, 40, 46, 59, 63, 70, 80。
Ch 12: 23, 31, 33, 42, 49, 54, 58, 59。	Ch 17: 22, 39, 50, 59, 63, 68, 75, 77。
Ch 13: 25, 50, 56, 63, 65, 70, 75, 78。	Ch 18: 30, 39, 44, 51, 52, 56, 63, 64。
Ch 14: 19, 35, 39, 54, 60, 65, 72, 73。	Ch 19: 26, 33, 36, 41, 48, 54, 57, 63。
Ch 32: 31, 38, 49, 52, 56, 61, 64, 65。	

Schedule

Week	Date	Agenda	Topics
1	09/10	Ch 1 – 5	(1) Introduction (2) Significant figures (3) Motion, Force and Newton's Laws
	09/13	Holiday	
2	09/17	Ch 1 – 5	
	09/20		
3	09/24	Ch 6	Work, Energy, and Power
	09/27	Ch 7	Conservation of Energy
4	10/01	Ch 8	Gravity
	10/04		
5	10/08	Ch 9	Systems of Particles
	10/11	Holiday	
6	10/15	Ch 9	Systems of Particles
	10/18	Preparation Day	
7	10/22	First Midterm Exam (Ch 5 – 9)	
	10/25	Ch 10 – 11	Rotational Motion, Angular Momentum
8	10/29		
	11/01		
9	11/05	Ch 12 – 13	Static Equilibrium, Oscillatory Motion
	11/08		
10	11/12	Ch 14	Wave Motion
	11/15		
11	11/19	Ch 32	Interference and Diffraction
	11/22		
12	11/26	Ch 15	Fluid Motion
	11/29	Preparation Day	
13	12/03	Second Midterm Exam (Ch 10 – 14, 32)	
	12/06	Ch 15	Fluid Motion
14	12/10	Ch 16 – 19	Thermodynamics
	12/13		
15	12/17		
	12/20		
16	12/24		
	12/27		
17	01/31		
	01/03	Preparation Day	
18	01/07	Final Exam (Ch 15 – 19)	

Note: Tuesday and Friday 。