

# ❖ PHYS 0174 : Physics for Science and Engineering 1

## • General Physics 1

- 4 credit course : 4 hours per week
- Classical Mechanics
  - : Motion (Velocity, Acceleration), Force, Energy
  - Newtonian Mechanics, Gravity, Oscillation.

## • Text

- Principle of Physics by David Halliday , Robert Resnick ,Jearl Walker (Author), 10<sup>th</sup> edition.:ISBN-13: 978-1118230749s

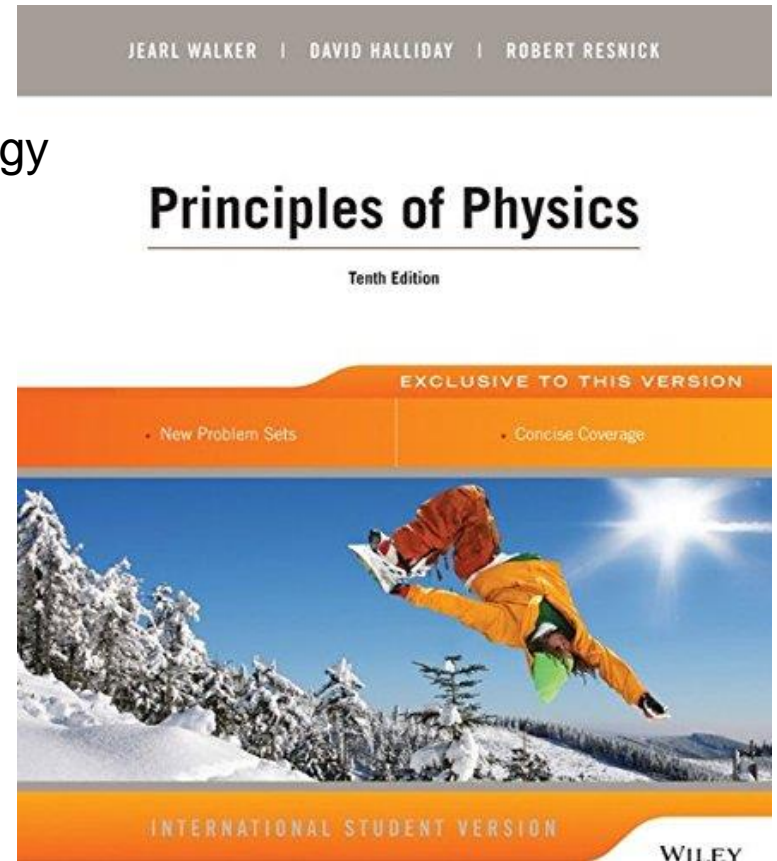
## • Lecture

- Instructor : Jeungphill Hanne, PhD  
[jeungphill.hanne@scupi.cn](mailto:jeungphill.hanne@scupi.cn)
- Time : 4 hour per week
- Office Hours : 1 hour per week

• **Course Website** : In the Black Board

• **Assignment** : Home work, Reading, etc.

• **Test for Grading** : 2 Midterms, & Final



## • **Course Scope & Objective**

- Scope : Motion (Velocity, Acceleration), Force, Energy, Newtonian Mechanics, Gravity, Oscillation, Wave.
- Objective : Developing the “Physics way” of Thinking, (Your own Understanding!!! : **Critical thinking**), while studying Physics 2 (Electromagnetism)

## • **Course Grading**

- Homework Sets (20%)
- Exams
  - Two midterms (22%+23%) and a final (35%)
- Scale: Followed by the rule from Sichuan University
- Basic rule : Any Cheating is prohibited !!!

## • **Course Tips**

- Read Chapters in advance : at least familiar with terms
- Home Works: Solve problems by yourself as you can, go back to contents, and examples in the text book → *Make it yours!!*
- Exam : Review textbooks, HW, & build up your understanding and approach to tackle Questions.

## • **Course Schedule of topics (tentative) : Next page**

## - Course Schedule of General Physics 1 : Phys 0174

Week	Physics 1 (PHYS 0174)	Topics	Assignment
Week 1 (9/2-9/8)	No Class		
Week 2 (9/9-9/15)	Introduction&Chap1&Chap2	Syllabus, Measurement & Motion	HW1
Week 3 (9/16-9/22)	Chap2&Chap3&Chap4	Vectors, Motion in 1,2,&3 dimension	HW2
Week 4 (9/23-9/29)	Chap4&Chap5	Force and Motion I	HW3
Week 5 (9/30-10/6)	National Holliday(10/1-10/7)		
Week 6 (10/7-10/13)	Chap5&Chap6	Force and Motion II	HW4
Week 7 (10/14-10/20)	<b>Mid Term 1</b> & Chap 6		
Week 8 (10/21-10/27)	Chap7	Kinetic Energy	HW5
Week 9 (10/28-11/3)	Chap8	Potential Energy	HW6
Week 10 (11/4-11/10)	Chap9	C.M. & Linear Momentum	HW7
Week 11 (11/11-11/17)	Chap10	Rotation	HW8
Week 12 (11/18-11/24)	<b>Mid Term 2</b> & Chap10		
Week 13 (11/25-12/1)	Chap 11	Torque & Angular Momentum	HW9
Week 14 (12/2-12/8)	Chap 12	Equilibrium	HW10
Week 15 (12/9-12/15)	Chap 13	Gravitation	HW11
Week 16 (12/16-12/22)	Chap 15	Oscillation	HW12
Week 17 (12/23-12/29)	Chap 16	Wave I	HW13
Week 18 (12/30-1/5)	<b>Final week</b>		
Week 19 (1/6-1/12)	<b>Final week</b>		