

PHY1202

General Physics II

Course organization

Sai Tak Chu



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Time and Venue

Time:

Lecture: Tuesday 09:00 to 11:50

Venue: Yeung LT-15*

Tutorial: Monday 14:00 to 14:50

Venue: Yeung LT-15*

31 August – 15 November Semester A
Except 1 October, National Day

***All lectures and tutorials will be taught online until further notice.**



Aims of this course

- This course provides an introduction to fundamental topics in physics including electricity and magnetism
- Its central aims are:
 - to learn the basic principles of electromagnetic interaction, one of the four fundamental interactions in nature.
 - to introduce the electric charge and the field and force generated by the stationary and moving charges.
 - to introduce the basic DC and AC circuits.



Prerequisites: what you should know now

To benefit from this course,
we expect you to have the following knowledge
before starting the course:

- ❑ AP1201 General Physics I
- ❑ HKDSE Mathematics Compulsory Part or Equivalent



Course Outline

Week	Textbook Chapter(s)	Topic
1	3	Vector, Fundamental Forces in Nature
2	21	Electric Charge
3	22	Electric Field
4	23	Gauss's Law
5	24	Electric Potential
6	25	Capacitance
7		Midterm
8	26	Current and Resistance
9	27	DC Circuits
10	28	Magnetic Field
11	29	Magnetic Field due to Current & Inductance
12	31	AC Circuits
13		Review



Learning structure

<u>Before class</u>	Read today's lecture notes and the corresponding chapter in the textbook in advance (available from Canvas)	
<u>In class</u>	1. Lecture (~2 hours per week)	
	2. Tutorial (~1 hours per week)	
<u>After class</u>	1. Do assignments	graded
	2. Self-review, self-learning	



Online Resources

Principles of Physics Extended, 9th Edition,
International Student Version

D Halliday, R Resnick, and J Walker

9th Edition, Wiley

Student companion site for the 8th edition is available in

<http://bcs.wiley.com/he-bcs/Books?action=index&itemId=0471758019&bcsId=3673>

<https://www.wolframalpha.com/>



Assessment

- 30% coursework – 15% assignments, 15% mid-term
- 70% exam
- Grading: A+, A, A-, B+, B, B-, C+, C, C-, D, F

