

PHYS 3022 *Applied Quantum Mechanics*

2019-2020 Term 2 (Jan – April 2020)

Course Instructor: Pak Ming Hui

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*You are welcome to stop by my office for questions **any time** or make appointment via email*

Course webpage:

<http://www.phy.cuhk.edu.hk/course/2019-2020/2/phys3022/>

PHYS 3022 is a sequel of PHYS 3021 (Quantum Mechanics I). PHYS 3021 in Term 1 (Fall 2019) was abruptly terminated on 13 Nov 2019.

Therefore PHYS 3022 will be adjusted to include some key QM concepts that were not covered in Term 1. All **class notes of PHYS 3021** (Term 1 2019) can be found at

<http://www.phy.cuhk.edu.hk/course/2019-2020/1/phys3021/download/index.html>

Lectures/Tutorials:

Tuesdays 9:30am – 11:15am (*Institute of Chinese Studies L1*)

Thursdays 12:30pm – 2:15pm (YC Liang Hall LHC 103)

Exercise Classes:

Tuesday 6:30pm – 7:15pm (ELB 306)

Wednesday 11:30am – 12:15pm (LSB C5)

Wednesday 6:30pm – 7:15pm (MMW 706)

*Exercise Classes are an integral part of the course. **You must arrange your schedule to attend one exercise class session every week.** TA will work out Sample Questions (examples) resemble those in an upcoming Problem Set. You will learn more effectively if you try out the sample questions before attending exercise classes.*

Assessments:

Problem Sets: 22% Mid-Term Exam: 30% Final Exam: 48%

[Students must note: A necessary (but not sufficient) condition for passing - Students must obtain *more than 20% in the written exam parts* (mid-term plus final) to be considered for a possible passing grade]

About Problem Sets:

- Problem Sets are designed to help you think through the course contents, understand the concepts and methods, and practice
- **Independent work expected**, although you are encourage to discuss with classmates
- Academic Honesty – CUHK has a zero tolerance policy against plagiarism (don't copy homework). See <http://www.cuhk.edu.hk/policy/academichonesty/> for University policy and advices.
- **T+2 Policy:** Problem Sets should be submitted on or before the due date **T**. Students may submit their work no later than 2 days after the due date (thus T+2), but there will be a 20% discount on the score of that assignment.

Teaching Assistants: 3 TA's, each offering 2 consultation hours (CH) per week. They grade your assignments and conduct exercise classes. They welcome questions even beyond CH's.

CHU Kwok Lam: SC313, Mon and Fri 10:30-11:15

michaelchu90@gmail.com

ZHOU Jingren: SC313, Fri 13:30 – 15:15 jrzhou@phy.cuhk.edu.hk

KWOK Ho Pai: SC315, Mon 14:30-16:15 1155079442@link.cuhk.edu.hk

You may also email them for appointments outside their CHs]

See Course Time Table in download area for details.

Mathematics Survival

For quick review on mathematical techniques previously covered in Year 1 courses, check out <http://www.phy.cuhk.edu.hk/elearning/math.html>

See also books on math skills reserved under PHYS 3021 and PHYS 3022 in the University Library.