



## Drug Discovery and Development (A3CHE001C)

**Introduction** This course will outline the underlying principles of drug discovery and development. This includes the investigation of the process of drug development, from the initial stage of identification of targets to the last stage of registration of drugs. Other than lectures, participants will be engaged in TWO half-day workshops in a commercial lab (Intertek Testing Services HK LTD) and a pharmaceutical company (Ling Nam Medicine Factory HK Ltd), which aim to familiarise participants with the chemical and microbiological tests involved and the actual workflow in the pharmaceutical industry. Through various scientific experiments in safety evaluation, participants' scientific concepts can be solidified and their interest in science is expected to be enhanced.

**Programme Type / Level** Chemistry Course (Level III) ([Token-required](#))

**Instructor(s)** Dr Wong Suk Yu

**Pre-requisite**

- Primary interest in pharmaceutical chemistry
- Biology and chemistry knowledge of S4 or above level is preferred

**Target Participants**

- S1 to S6 HKAGE student members
- Class size: 30

**Medium of Instruction** English (Supplemented with Cantonese) with English Handouts

**Certificate** **E-Certificate** will be awarded to participants who have:

- ❖ Attended **AT LEAST 5** sessions AND
- ❖ Completed all the assessments with satisfactory performance.

**Intended Learning Outcomes** Upon completion of the programme, participants should be able to:

- explain the principles behind a range of drug discovery and development techniques with timelines;
- explore the challenges faced in each step of the drug discovery process;
- elaborate the role of the scientific approach in drug discovery, drug development and clinical trials of drugs;
- apply analytical methodologies in drug development planning and analysis;
- process and interpret empirical evidence acquired in each step of drug development critically.

**Screening** Please answer the screening question in the online application form.  
\*The screening question is designed to help the applicant understand the course level and the course content. The question must be answered by the student applicant and it can only be attempted once. The answer cannot be changed once the application is submitted. Selection is based on students' performance in answering the question. Only students who can demonstrate motivation and the knowledge of Chemistry in the screening question can be enrolled in the programme.

**Application Deadline** **3 Dec 2021, 12:00 n.n**      **Application Result Release Date** **10 Dec 2021**

If student members withdraw from the programme after the Application Deadline, the token will be deducted.

## Schedule

Session	Date	Time	Venue
1	30-Dec-2021	10:30 a.m. – 12:30 p.m.	HKAGE Room 29, Buddhist Kok Kwong Secondary School <sup>1</sup>
2	8-Jan-2022	10:30 a.m. – 12:30 p.m.	
3	15-Jan	10:30 a.m. – 12:30 p.m.	
4	22-Jan	9:00 a.m. – 12:00 n.n.	Ling Nam Medicine Factory (HK) LTD <sup>2</sup>
5	4-Feb	9:00 a.m. – 12:00 n.n.	Intertek Testing Services HK LTD <sup>3</sup>
6	5-Feb	10:30 a.m. – 12:30 p.m.	Room 403, HKAGE

Session	Date	Time	Venue
1	30 Dec 2021	10:30 a.m. – 12:30 p.m.	Room 29, Buddhist Kok Kwong Secondary School <sup>1</sup>
2	15 Jan 2022	10:30 a.m. – 12:30 p.m.	Zoom Meeting
3	22 Jan	10:00 a.m. – 12:00 noon	Zoom Meeting <b>(Presentation)</b>
4	<b>25 Jun</b>	<b>9:00 a.m. – 12:00 noon</b>	Ling Nam Medicine Factory (HK) LTD <sup>2</sup>
5	<b>15 Aug</b>	<b>10:00 a.m. – 12:00 noon</b>	<b>Room 204, HKAGE</b> <b>(Final test)</b>
6	<b>16 Aug</b>	<b>9:00 a.m. – 12:00 noon</b>	Intertek Testing Services HK LTD <sup>3</sup>

<sup>1</sup>Address: Sha Kok Estate, Sha Tin, N.T. ([MAP](#))

<sup>2</sup>Address: 20A, Yee Wah Industrial Building, 18 San On Street, Tuen Mun ([MAP](#))

<sup>3</sup>Address: 2/F, Garment Centre, 576 Castle Peak Road, Kowloon ([MAP](#))

## Enquiries

For enquiries, please contact us on 3940 0101 or via email [programme@hkage.org.hk](mailto:programme@hkage.org.hk).