

Secondary Schools - The Hong Kong University of Science and Technology (HKUST)
Dual Program 2018
Level 1 (Life Science)

中學／大學雙修課程 2018
階段一（生命科學）

Course Objectives 課程目標

This course aims to provide students with a basic understanding of life systems and arouse their interest in life science. The course starts by introducing cells and the basic unit of life. We explore the features of life by learning the structures and functions of it. It will then focus on the key life processes in animals and plants, genetics, ecology and human diseases. In this course, demonstrations and various learning activities are designed to facilitate students to acquire critical thinking, scientific enquiry and communication skills.

本課程旨在為學生提供對生命系統的基本認知及引起學生對生命科學的興趣。生命始於細胞，以細胞為基本單位。通過認識細胞的結構和功能，學生便能探索生命；從而了解動植物的生命機制、基因、生態和人類的疾病。課程會透過示範及不同的學習活動，幫助學生提高批判性思考、科學探究和溝通技巧。

Pre-requisite 修讀條件

General understanding of the contents listed in the Science (Secondary 1-3) Syllabus [HK EDB:

http://cd1.edb.hkedcity.net/cd/science/is/sci_syllabus_S1to3_e.pdf], and have a genuine interest in life and the living world.

對在初中課程綱要中列明的內容有大致的認識 [教育局：

http://cd1.edb.hkedcity.net/cd/science/is/sci_syllabus_S1to3_c.pdf]，以及對生命和生物世界有濃厚的興趣。

Course Instructors 課程導師

Dr Otis Lam 林耀文博士 (Sessions 1 -5)

Dr Melody Leung 梁嘉華博士 (Sessions 6 – 11, 17)

Dr Cindy Lam 林嘉善博士 (Sessions 12 – 13)

Dr Nina Siow 蕭琳博士 (Sessions 14 – 16)



Medium of Instruction 教學語言

Cantonese / English *, with lecture notes in English

廣東話／英語授課 *，並輔以英文教材

Venue 地點

HKUST Campus 香港科技大學

Assessment 評核方式

Group presentations / Classwork / Homework / Final Assessment (No make-up assessment is arranged)

小組報告／課堂表現／功課／期終評估（不安排後補評估）

** The medium of instruction adopted for this course will depend on the enrolment each year.*

課程最終採取的教學語言將依據每年報讀學生情況而定。

Remarks 備註

Outstanding students will be promoted to DP Level 2. Course schedule and content are subject to change if necessary.

表現優異的同學可晉升雙修課程階段二。課程時間表及內容為暫定，會應需要而變更。



DP Level 1 (Life Science) — Course Schedule
雙修課程 階段一（生命科學） — 課程時間表

Session 節次	Date 日期	Time 時間	Venue 地點	Topic 課題		
1	24/11/2018 (Sat)	To be confirmed 待定	To be confirmed 待定	Commencement Ceremony 開學典禮		
		2:00 – 5:00 pm		Introduction & Group Forming 課程簡介及分組 Biochemistry of Life 生命與生物化學		
2	1/12/2018 (Sat)	2:00 – 5:00 pm		Cells and Cell Structures / Organelles 細胞及細胞結構／細胞器		
3	8/12/2018 (Sat)			Group Presentation 小組匯報	Cellular Process – Material Transport & Enzymatic Reactions 物質運輸 和 酶作用	
4	15/12/2018 (Sat)	12:30 – 2:00 pm		▲ Tutorial 1 (Optional) ▲ 導修課 1（選擇參與）		
		2:00 – 5:00 pm		Group Presentation 小組匯報	Cellular Process – Respiration 呼吸作用 Cell Cycle 細胞週期 BioSphere Tutorial 生態球導修	
5	5/1/2019 (Sat)	2:00 – 5:00 pm		2:00 – 3:00 pm	* Student Activity Day (Mandatory) 學生活動日（所有學生必須出席）	
6	12/1/2019 (Sat)	2:00 – 3:00 pm			2:00 – 5:00 pm	Lab 1 Preparation – BioSphere 實驗準備（生態球）
		3:00 – 5:30 pm		Plant Biology 植物學		
7	19/1/2019 (Sat)	2:00 – 5:00 pm		Photosynthesis / Lab 2 Preparation 光合作用／實驗準備		
8	26/1/2019 (Sat)			Lab 2 Follow-up 實驗總結		
9	2/2/2019 (Sat)			▲ Tutorial 2 (Optional) ▲ 導修課 2（選擇參與）		
10	23/2/2019 (Sat)	12:30 – 2:00 pm		2:00 – 5:00 pm	Group Presentation 小組匯報	Lab 1 Follow-up 生態球實驗總結 Conservation Biology 保育學 Waste Management 廢物管理學 Embryonic Development and Aging 發育和老化
11	2/3/2019 (Sat)	2:00 – 5:00 pm			▲ Tutorial 3 (Optional) ▲ 導修課 3（選擇參與）	
		9/3/2019 (Sat)			2:00 – 5:00 pm	Group Presentation 小組匯報
12	16/3/2019 (Sat)	2:00 – 5:00 pm				Assessment 評核
13	23/3/2019 (Sat)			2:00 – 5:00 pm	Make-up Session in case of Bad Weather 天氣惡劣的後補課節	
14	30/3/2019 (Sat)	12:30 – 2:00 pm	2:00 – 5:00 pm			
		2:00 – 5:00 pm				
15	6/4/2019 (Sat)	2:00 – 5:00 pm	2:00 – 5:00 pm			
16	13/4/2019 (Sat)					
17	27/4/2019 (Sat)	To be confirmed 待定				

▲ Tutorial: Conducted by Dual Program alumni. **For signed-up students only.** 導修課：由雙修課程舊生指導。只限已報名同學參與。

*Student Activity Day: Students will have a chance to participate in enrichment activities outside classroom. Apart from it, CDGT will organize a wide range of activities and programs such as campus tour and mentorship scheme for students. Details will be announced later.

學生活動日：學生將有機會走出課室參與活動及參觀。除此以外，CDGT 將舉辦更多活動，如：校園探索之旅及師友計劃，以助學生作全面發展。詳情容後公布。