



Microbiology, Neuroscience, and Molecular

Biology (M-n-M) (TECS2603)

Introduction	<p>This course covers three major areas: Microbiology (e.g. disease transmission and food safety), Neuroscience (e.g. brain structure and organisation in different species, neural coordination), and Molecular Biology (e.g. science of nucleic acids and proteins, biotechnology). You will learn the working principles and applications of introduced technologies such as aseptic technique, DNA extraction, Polymerase Chain Reaction (PCR), gel electrophoresis and histological staining. Students need to perform experiments in group, collect and interpret data. At the end of the course, students are able to correlate the biotechnology knowledge with daily life and coming future.</p>		
Programme Type / Level	Biotechnology I Course (Level 4) (Token-required)		
Instructor(s)	Dr YUE Ying Kit Patrick (Department of Biology, Hong Kong Baptist University)		
Pre-requisites	<ul style="list-style-type: none"> ● Students with primary interest on biology, biotechnology and biomedical science; ● Biology knowledge of S3 or above level is recommended. 		
Target Participants		<ul style="list-style-type: none"> ➢ S3 – S6 HKAGE student members in 2019-20 school year ➢ Class size: 30 	
Medium of Instruction		English with English handouts	
Certificate		<p>E-Certificate will be awarded to participants who have:</p> <ul style="list-style-type: none"> ❖ Attended at least 3 sessions; AND ❖ Completed all the assignments with satisfactory performance. 	
Intended Learning Outcomes		<p>Upon completion of the programme, participants should be able to:</p> <ol style="list-style-type: none"> 1. Describe the basic concepts in microbiology, neuroscience and molecular biology; 2. Explain the working principles and applications of introduced technologies, e.g. aseptic technique, food hygiene and safety test, DNA extraction, PCR, gel electrophoresis, genetic modified (GM) food test, histological staining & examination, etc; 3. Correlate biotechnology with daily life. 	
Screening		<p>Please answer the screening questions in the online application form.</p> <p>*The screening questions are designed to help the applicant understands 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 questions. Only students who can demonstrate motivation and the basic knowledge of biotechnology in the screening questions can be enrolled in the programme.</p>	
Application Deadline	11 May 2020, 12:00 n.n. 25 May 2020, 12:00 n.n.	Application Result Release Date	22 May 2020 5 June 2020
Student members may withdraw from the programme on or before the deadline. Otherwise, the token will be deducted.			

Schedule



Session	Date	Time	Venue (HKBU)
1	30 Jul	10:00 a.m. – 1:00 p.m.	QEW4004, 10/F, Oen Hall Building (West Wing), Ho Sin Hang Campus (map) Online Lecture
2		2:00 p.m. – 5:00 p.m.	
3	31 Jul	10:00 a.m. – 1:00 p.m.	
4		2:00 p.m. – 5:00 p.m.	

Enquiries



For enquiries, please contact us at 3940 0101 after language selection, press "1".

SCIENCES

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