E1STM011C
(Token- required)

STEM Course (Level I)

Food Science and Technology

Prof. Marshal Liu

Application Deadline
9 Jun 2023 12:00 noon

Result Release
16 Jun 2023

Intended Learning Outcomes

Upon completion of the programme, participants should be able to:

1. demonstrate a clear understanding on basic food science and technology about the common food;

2. evaluate the nutrition and safety of food;

3. obtain hands on experience in food processing;

4. appreciate the importance of a balanced and healthy diet.

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

◆ Introduction

Food is indispensable in our life. It provides energy, nutrition, and satisfaction. We obtain adequate and balanced nutrients from food, and meanwhile we should try to keep away from the junk food and unhealthy stuff. There are various so-called healthy food, super food and functional food on the market. Are they really useful? Food safety is undoubtedly critical to our health. Is your food contaminated by microbes or chemicals? How to tell the risk? Science gives us tools and knowledge to debunk food myths. This course will introduce food science and technology with real-life cases. In the lab session, students will obtain hands-on experience through food processing experiments. Future food, such as genetically modified food, artificial meat (plant-based meat or lab-grown meat), and novel food processing technology will also be discussed.

◆ Schedule

Session	Date	Time	Venue
1	31 Jul	9:30 a.m. – 12:30 p.m.	Room 2405, Lift 17/18, Academic building, HKUST
2		2:00 p.m. – 5:00 p.m.	
3	2 Aug	9:30 a.m. – 12:30 p.m.	
4	4 Aug	9:30 a.m. – 12:30 p.m.	
5		2:00 p.m. – 5:00 p.m.	

◆ Target Participants

- P4 to S3 HKAGE student members in 2022/23 school year
- Class size: 30
- S.1-S.3 student members will be given the priority
- P.4 to P.6 student members need to finished the E1STM001C E1STM001C-2 in 21/22 or 22/23

◆ Pre-requisite

No special prerequisites are needed

◆ Certificate

E-Certificate will be awarded to participants who have:

- attended at least 4 sessions; and
- completed all the assignments with satisfactory performance

◆ Screening

Please answer the screening question in the online application form.

*The screening question is 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 question. Only students who can demonstrate motivation and the knowledge of STEM in the screening question can be enrolled in the programme

◆ Medium of Instruction

Putonghua with English Handouts