

Course syllabus

1. Course number 2314255 (SEC 51)
2. Course credit 3 credits
3. Course title Elementary Food Technology
4. Department/Faculty Department of Food Technology/Faculty of Science
5. Semester First
6. Year 2024
7. Instructor Associate Professor Dr. Kanitha Tananuwong
Assistant Professor Dr. Varapha Kongpensook
Assistant Professor Dr. Panita Ngamchuachit
Associate Professor Dr. Kitipong Assatarakul (coordinator)
(email : Kitipong.A@chula.ac.th)
8. Conditions -
9. Course status Selective
10. Course of study General education project
11. Course level undergraduate
12. Lecture hour/week 3 hours/week; Thursday (9.00-12.00 hrs)
13. Course description Principle of food preservation and processing, Food chemistry and Microbiology of Food and Basic food safety

14 Course outline

14.1 Objectives

- to understand definitions and processing in food processing
- to understand the factors influencing the spoilage of foods and basic principle of food preservation
- to be able to imply the learned knowledge in everyday life.

14.2 Content

Date	Topics	Instructor
8 Aug 2024	Course overview and Introduction of Food Technology	Dr. Kitipong
15 Aug 2024	Food and Nutrition	Dr. Kitipong
22 Aug 2024	Deterioration of Food by Microorganism	Dr. Kitipong
29 Aug 2024	Deterioration of Food by Chemical and Physical reaction	Dr. Kitipong

5 Sep 2024	Unit Operation	Dr. Panita
12 Sep 2024	Food Preservation; Chemicals	Dr. Kanitha
19 Sep 2024	Food Preservation; Drying and concentration	Dr. Panita
	Midterm examination (23 – 27 Sep 2024)	
3 Oct 2024	Food Preservation; Low/High temperature	Dr. Kitipong
10 Oct 2024	Food Preservation; Fermentation	Dr. Kitipong
17 Oct 2024	Quality of Food; Measurement	Dr. Panita
24 Oct 2024	Product Development	Dr. Kanitha
31 Oct 2024	Introduction to Sensory analysis	Dr. Varapha
7 Nov 2024	Food Packaging/Labeling	Dr. Kitipong
14 Nov 2024	Risk, Hazard and Food Safety	Dr. Kitipong
21 Nov 2024	Food Sanitation and Food Service	Dr. Kitipong
	Final Examination (25 Nov – 9 Dec 2024)	

14.3 Teaching Methods **Tentative: Room MCS 303 (Maha Chakri Sirindhorn Building)**

14.4 Teaching media slides, video, handouts and E-learning platform

14.5 Learning evaluation	Mid-term exam	<u>40%</u>
	Final exam	<u>40%</u>
	Quiz/Class attendance	<u>10%</u>
	Report/presentation	<u>10%</u>
	Total	<u>100%</u>

15. References;

15.1 Gaman, P,M. and Sherrington, K.B. 1990. The Science of Food 3rd Pergamon Press. Oxford, England

15.2 Potter, N.N. and Hotchkiss, J.H. 1998. Food Science 5th ed. An Aspen Publication.

16. Grading

Score	Grade
≥ 80	A
75.00-79.99	B+
70.00-74.99	B
65.00-69.99	C+
60.00-64.99	C
55.00-59.99	D+
50.00-54.99	D
< 50	F