

Course Syllabus (Academic Year 2022)

School of Interdisciplinary Studies, Kanchanaburi Campus, Mahidol University

- 1. Course No. and Title: KAFT 356 Food and Nutrition
 - Credit (study hours) : 3(3-0-6)
- 2. Program Name : Bachelor of Science in Food Technology
- 3. Course Module : Specific Core Course, Required Subject
- Pre/co-requisite : KAID 200
- **4.** Class Semester : 1st Semester Academic Year 2022
- 5. Class Schedule & Venue : Lecture every Wednesday at 09:00 12:00,

Room: L-218

6. Class Coordinator : Asst. Prof. Dr. Natteewan Udomsil (081-7249641)

Email : paeng888@hotmail.com

7. Course Description

Nutritional value; human digestion; nutritional requirement in different stages of life; diet therapy in patient and malnutrition person; the current issues of food for health; healthy foods; critical thinking and teamwork

8. Course Objectives / Course Learning Outcomes (CLOs)

No.	Objectives / CLOs	Expec	PLOs			
NO.	Objectives / GLOS	Specific	Generic	Knowledge	1 203	
8.1	Explain roles and functions of nutrients on	-	G2	K4, K28	1	
	human body					
8.2	Explain overall process of digestion and	-	G2	K28	1	
	absorption system as well as the roles					
	played by the liver, gallbladder, and					
	pancreas					
8.3	Explain nutritional requirement of each stage	S8	G2	K4, K28	1	
	of life and understand the disease problems					
	that occur from food consuming behavior					
8.4	Demonstrate the use of communication skill	-	G10, G14	K4, K28	5	
	and show cooperative teams					

Note: S8, skill in judging food quality based on provided data; G2, information acquisition; G10,

Communication skill; G14, presentation skill; K4, food biochemistry; K28, human nutrition

**** PLO1**: Apply knowledge and skill of food technology and related fields to work in a role of food technologists in food industries for producing safe foods that also meet standards.

PLO2: Analyze basic food qualities using appropriate laboratory techniques following good practice with moral and utilization of laboratory resources effectively.

PLO3: Conduct research in food technology for problem solving or product developing following the change in terms of economy, society and environment--at the local level, national level or global level—using appropriate scientific research methodology, working with good ethics, and expressing the desire to develop better research.

PLO4: Able to communicate both verbally and literally in Thai and English to different levels of audience as a role of food technology effectively using appropriate methods.

PLO5: Demonstrate to work as in a team both as a leader and a member of the group effectively for promoting good co-operation.

9. Class Instructor List

9.1 Name : Asst. Prof. Dr. Natteewan Udomsil (NU)

9.2 Name : Aj. Paponpat Artitdit (PA)

Email : paeng888@hotmail.com Email : aodpaponpat@hotmail.com

10. Course Outline

Week	Date	Contents	CLOs	Teaching & Learning	Instructor's Names			
1	10/08/22	Introduction of the course and behavior	8.1-8.3		NU			
		of consumer						
2	17/08/22	Food and nutritional value	8.1		NU			
3	24/08/22	Nutritional assessment and healthy food	8.1	Lecture	NU			
4	31/08/22	Gastrointestinal system	8.2	and	NU			
5	7/09/22	Carbohydrate	8.1	discussion	NU			
6	14/09/22	Protein	8.1		NU			
7	21/09/22	Lipid	8.1		NU			
8	28/09/22	Vitamin and mineral	8.1		NU			
9	9 Mid-term Examination (3 rd – 7 th October 2022)							
10	12/10/22	Nutrition in pregnancy and breastfeeding	8.3	Lecture	PA			
11	19/10/22	Nutrition in infancy and preschool	8.3	and	PA			
		children		discussion				
12	26/10/22	Nutrition in school-age and teenager	8.3	GIOCOGOIOTT	PA			

13	2/11/22	Nutrition in adult and elder	8.3		PA	
14	9/11/22	Diet therapy in diabetes, hypertension,	8.3		PA	
14		heart and kidney disease				
15	16/11/22	Group report assignment	8.4		NU	
16	Final Examination (6 th – 16 th December 2022)					

*Class may be changed and announced later

11. Course Assessment

					Weight
No.	Methods / Activities	Regulations	CLOs	Week	Distribution
					(%)
11.1	Midterm examination	- Closed book/open book	8.1, 8.2	1-8	45
		- Calculator is not allowed			
11.2	Final examination	- Closed book/open book	8.3	10-14	40
		- Calculator is not allowed			
11.4	Group assignment	Report and/or presentation	8.4	15	10
11.5	Class participation and	Instructor evaluation of class		1-8,	5
	accountability	participation and accountability		10-14	
				Total	100

12. Grading System

☑ Criterion-referenced evaluation

Grad	Score	Grade	Score	Grade	Score	Grade	Score
е							
А	≥ 80 %	В	70 – 74.99%	С	60 – 64.99%	D	50 – 54.99%
B+	75 – 79.99%	C+	65 – 69.99%	D+	55 – 59.99%	F	< 50 %

□ Norm-referenced evaluation

*If use both criterion and norm-referenced evaluation, please tick two boxes.

13. References

- 13.1 Medeiros, D.M. and Wildman, R.E.C. Advanced human nutrition. 2000. CRC Press, New York.
- 13.2 Wardlaw, G.M., Smith, A.M., Lindeman, A. K. Contemporary Nutrition: A Functional Approach. 2012.2nded. McGraw Hill, New York.
- 13.3 Whitney, E., and Rolfes, S.R. Understanding nutrition. 11th ed. Australia: Thomson.