

Course Title
M.Sc. in Functional Food and Nutrition (International Program)

Academic Institution: Faculty of Agro-Industry, Prince of Songkla University

Program Title: Master of Science (Functional Food and Nutrition) or M.Sc. (Functional Food and Nutrition) (International Program)

Program learning outcome (PLO)

PLO1 Explain the impact of functional food on people, patients, or pets.

PLO2 Select the appropriate tool for testing and evaluating the impact of functional foods in vitro studies.

PLO3 Generate novel knowledge or innovative functional food and nutrition for people, patients, or pets.

PLO4 Utilize information technologies to expand the knowledge of functional foods and nutrition.

PLO5 Prepare efficiently for present-day and academic English communication.

PLO6 Demonstrate the goodness of behaviors including morality, ethics, and responsibility.

PLO7 Demonstrate academic leadership in functional food.

Philosophy of the Program

This program focuses on delivering research ideas, proofing results, and using diverse knowledge to generate novel functional food and nutrition outcomes. The study style is according to progressivism. The program also employs progressive learning, namely active learning with ethics, morals, and public responsibility.

PSU's educational philosophy (<http://webagro.psu.ac.th>)

PSU's educational philosophy is managed by

- Progressivism, using learning process with the students as the “center of attention” and the basis of “Outcome-based Education” such as active learning, problem-based learning, project-based learning, and service learning
- PSU aims to provide students with a lifelong learning approach
- PSU believes that these principles can be met and aided by Prince of Songkla Mahidon Adulyadej's motto, “Our soul is for the benefit of mankind”

Program structure:

Course	Plan A1 (Research only)	Plan A2 (Research with course works)	Plan B (Minor thesis with course works)
Compulsory	-	12	12
Elective	-	6	18
Thesis	36	18	6
Total	36	36	36

Study plan

Academic year	Semester	Plan A1	Plan A2	Plan B
1	1	859-836 Thesis 9 credits	859-511 Food, Nutrition and Health 3 credits 859-512 Functional Food and Nutraceutical in Metabolic Pathway 2 credits 859-513 Technology and Commercialization of Functional Food and Nutraceutical 3 credits 859-599 Research Methodology Experimental Design 2 credits	859-511 Food, Nutrition and Health 3 credits 859-512 Functional Food and Nutraceutical in Metabolic Pathway 2 credits 859-513 Technology and Commercialization of Functional Food and Nutraceutical 3 credits 859-599 Research Methodology Experimental Design 2 credits
		Total 9 credits	Total 10 credits	Total 10 credits
	2	859-836 Thesis 9 credits 859-596 Seminar1\ 1credit	859-xxx Elective course 6 credits 859-596 Seminar 1 1 credit 859-818 Thesis 4 credits	859-xxx Elective course 6 credits 859-xxx Elective course 3 credits 859-xxx Elective course 3 credits
		Total 9 credits	Total 11 credits	Total 12 credits

Academic year	Semester	Plan A1	Plan A2	Plan B
2	1	859-836 Thesis 9 credits	859-818 Thesis 7 credits	859-xxx Elective course 6 credits 859-xxx Elective course 3 credits 859-596 Seminar 1 1 credit
		Total 9 credits	Total 7 credits	Total 10 credits
	2	853-836 Thesis 9 credits 859-597 Seminar2 1 credit	853-818 Thesis 7 credits 859-597 Seminar2 1 credit	853-806 Minor Thesis 6 credits 859-597 Seminar2 1 credit
		Total 9 credits	Total 8 credits	Total 8 credits
Total		36 credits	Total 36 credits	Total 36 credits

Elective courses 6-18 credits

859-521 Module: Innovation of Functional Food and Nutraceutical	7 (3-12-6) credits
859-531 Gastronomy and Nutrition	3 (2-3-4) credits
859-532 Advanced Nutritional Biochemistry	3 (3-0-6) credits
859-541 Nutrigenomics, Proteomics, Metabolomics and Dietetics	3 (3-0-6) credits
859-542 Selected Topics in Functional Food and Nutrition	3 (2-3-4) credits
850-511 Functional Properties of Food Components	3 (2-3-4) credits
850-521 Experimental Design in Product Development	3 (2-3-4) credits

Duration: 2 years

Graduation Requirements

1. Meet the English performance requirements established by the Graduate School.
2. Fulfill the program requirements with a GPA of at least 3.00 (except Plan A1)
3. Satisfy the proposal examination and thesis with a grade of S or X
4. Plan A1: publish an academic article from your thesis or a portion of your thesis in a peer-reviewed journal.
5. Plan A2: publish an academic article from the thesis or a portion of the thesis in a peer-reviewed journal or proceeding.
6. Plan B publish the academic article from a minor thesis or a part of a minor thesis at least 1 article in a searchable manner.