

Course Title

Master of Science in Food Science and Technology

Master Degree: Master of Science in Food Science and Technology

Academic Institution: Faculty of Agriculture, Natural resources and Environment, Naresuan University

Duration: 2 years

Objectives:

1. To produce graduates in Food science and Technology with knowledge and skill that meet the international standard in the field of Food Science and Technology and with capability to efficiently apply the knowledge
2. To produce graduates that serve government policy of agro-industries
3. To produce graduates with ability of conducting research and applying the knowledge to the food industries

Course Synopsis & Methodology:

Welcome to the Department of Agro-Industry at Naresuan University. Our department serves the needs of study and research with high quality laboratories and equipment. We have continuously produced graduates who possess both academic and practical experiences in the field of agro-industry, especially in food science and technology.

We are proud of our strong graduate programs in Food Science and Technology both at master's and doctoral levels. Our good reputation is confirmed through high quality technical presentations in international conferences, scientific conventions, and both national and international publications.

As presented in the faculty profiles, expertise among our faculty is diverse and comprehensive, covering broad areas, such as food chemistry, food processing and engineering, food microbiology and food safety, food product development, food biotechnology, and food nutrition and packaging. Our missions not only focus on instruction and research but also consultancy and outreach programs. Our faculty members are well-known for their willingness to nurture capable students through participation in their commissioned research project as part of the student's own thesis. These efforts, therefore, have led to a number of international publications and patents over the past decade.

Our faculty members also have established close and strong relationships with professors in leading US, European, Asian, and Australian universities and research institutes.

As for recognition and significant partnerships, our department is honored to be a member of several professional consortiums and associations, such as the Thailand Agro-Industry Academic Council Association (AIAC). Moreover, in the capacity of a committee member on the AIAC Board, our department is kept abreast of up-to-date activities. In addition, we also signed MOUs with the leading food industry companies, such as CEO Agrifood Co. Ltd, WGC Co. Ltd., and Oryza Oil and Fat Chemical Co. Ltd. (Japan). Regarding the MOUs, our staff and students have received research funding and scholarships on a continuous basis.

One of our great advantages as compared to other universities offering programs in Food Science and Technology is the location. We are situated in the hub of thriving primary agricultural production for consumption both at home and abroad. Additionally, as a department under the Faculty of Agriculture, Natural Resources and Environment, we are closely related to other departments and together we can make a big difference in our field with collective efforts.

Come and join us as the path to your personal success, through our course offering research opportunities with provision for funding through grants and scholarships. Let's join hands in feeding the world with safe and healthy foods.

Course Content/Study Topic:

- A total of 36 credits are required for the degree under Plan A 1.
- The English Proficiency Test requirement must be met by the time of graduation.
- Successful completion of a degree exam (thesis defense) and submission of a thesis

that has been approved by the Special Committee.

- At least one research article accepted for publication.
- 5 credits of non-credit required courses.
- No less than 36 credits of thesis.

Plan A 1 Type A 1

Thesis

108591 Thesis I

108592 Thesis II

108593 Thesis III

108594 Thesis IV

36 Credits

9

9

9

9

<u>Core course: (Non-Credit)</u>	5	Credits
108522 Research Methodology in Science and Technology		3
108581 Seminar I		1
108582 Seminar II		1
<u>First Year (First Semester)</u>	9	Credits
108522 Research Methodology in Science and Technology (Non-credit)		3
108591 Thesis I, Type A1		9
<u>First Year (Second Semester)</u>	9	Credits
108581 Seminar I (Non-credit)		1
108592 Thesis II, Type A1		9
<u>Second Year(First Semester)</u>	9	Credits
108593 Thesis III, Type A1		9
<u>Second Year (Second Semester)</u>	9	Credits
108582 Seminar II (Non-credit)		1
108594 Thesis IV, Type A1		9

Course Description

108591 Thesis I, Type A1	9	Credits
The basic overview of the thesis and its educational objectives, structure and formatting of master degree's thesis, suggesting thesis proposal elements, identify a thesis theme.		
108592 Thesis II, Type A1	9	Credits
Performing a thorough review of the literature in the area of thesis theme and presentation, developing in research methodology including a description of research design, the type of data to be collected, the method of collection, and how the data will be evaluated, presenting a thesis proposal to thesis advisor and committee.		
108593 Thesis III, Type A1	9	Credits
Conducting thesis research to demonstrate mastery of a body of knowledge in food science and technology, preparation and completion of a scientific manuscript for publication, writing the master thesis document following the Thesis Guidelines.		
108594 Thesis IV, Type A1	9	Credits
Presenting the master thesis to the colloquium which either approved, rejected, or conditionally approved with recommendations for improvement, rectifying the work and submitting it to the graduate school.		

- 108522 Research Methodology in Science and Technology 3 Credits
 Definition and objectives of research, research methodology, research categorization, statement of problem, variables, hypothesis, experimental design, data collection and data analysis are discussed, application of computer and statistical program for database management and data analysis for food and nutrition research, proposal, report and manuscript writing, evaluation of research, research ethics.
- 108581 Seminar I 1 Credits
 Scientific reading and analytical skills of food science and technology and related field from international academic publication, preparation techniques and presentation of academic articles.
- 108582 Seminar II 1 Credits
 Provide students experiences in the oral presentation in English regarding food science and technology.

Qualification:

- A bachelor's degree or its equivalent in Science, Medical Science, or Engineering from an accredited institution.
- Cumulative GPA at graduation of 2.5 or higher (on a 4.0 scale).
- Work-experience in Agro-Industry or academia, at least 3 years is required for applicants who have a GPA < 2.5 and would like to apply for Plan A.
- An official English test score taken within the last two years is required for applicants who are not native speakers.
- A minimum paper based TOEFL, CU-TEP, or NU-TEP score of 470 or
- A minimum computer based TOEFL of 150, internet based TOEFL of 50 or A minimum IELTS score of 4.0 or
- Cambridge Placement Test online of B1 (51-59).
- Passing the oral examination. Applicants for Plan A 1 is required to demonstrate a comprehensive understanding of academic background and/or work-experience and ability to conduct research on areas of Food Science and Technology.
- Applicants for Plan A 1 are required to submit a brief research proposal (a maximum of three pages of A4 paper). The brief research proposal must cover principles and rationale, objectives, research methodology, and significance/expected outcomes.

Exceptions:

- Bachelors who graduate in programs taught in English are exempted from the English requirement.

- Applicants who meet all the requirements except English language proficiency may be admitted as provisional students; however, students must have a required English test score before graduation.

Document Required:Guidelines:

- Application forms can be download at <https://interregis.nu.ac.th/>, the website of the Division of International Development, Naresuan University and directly submitted to the program coordinator.

- 1,000 Baht (\$US 34) nonrefundable application fee.
- An official English test result taken within the last two years.
- A photograph with dimensions of 1 inch x 1 inch, no more than 6 months old at the date of application.
- A copy of the official transcript.
- A copy of the official diploma or diploma certificate.
- A copy of the National ID card.
- Medical Health Report
- TOEFL (for student non-English speaking institutions)
 - Computerbased: 213
 - Paper based: 550
 - iBT: 80 and IELT: 6.5

Closing Date for Nominations: May 31, 2018

Late or incomplete applications/documents will not be considered.