

Course Detail

Master of Science Program in Food Science and Technology

Course Title: Master of Science Program in Food Science and Technology

Master Degree: M.Sc. (Food Science and Technology)

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

Duration: 2 years (June 2022 – May 2024)

Background and Rational:

In response to the 12th National Economic and Social Development Plan (2017-2021) which specifies guidelines for agricultural development towards food excellence, the growth of an aging society, trends in consumer health food demands, and the missions, goals, objectives, determinations and visions of Naresuan University, production and development of personnel with knowledge and competence in food science and technology with high potential in applying theoretical knowledge, research and new knowledge in order to put into practice and keep up with the current situation that Thailand is facing is therefore important and necessary. This is to bring innovation or modern technology to produce or process food efficiently, including creating added value to food and enhancing abilities in the competition and economic development of the country.

Department of Agro-Industry realizes the importance and necessity of producing graduates to meet the aforementioned needs. Therefore, the Master of Science Program in Food Science and Technology has been improved to support the need for further study at the graduate level and for the development of manpower in food science and technology to feed the labor market.

Objectives:

To produce Master of Science graduates in Food Science and Technology who have the following characteristics:

- Having advanced knowledge in the field of Food Science and Technology
- Being able to continuously integrate the knowledge of Food Science and Technology with other relevant disciplines
- Have good moral and ethical standards

Course Synopsis and Methodology:

1.1 Study Plan

Year 1	
Semester 1	
108522 Research Methodology in Science and Technology (Non-credit)	3(3-0-6)
108591 Thesis 1, Type A1	9 credits
Total	9 credits
Year 1	
Semester 2	
108581 Seminar 1 (Non-credit)	1(0-3-1)
108592 Thesis 2, Type A1	9 credits
Total	9 credits
Year 2	
Semester 1	
108593 Thesis 3, Type A1	9 credits
Total	9 credits
Year 2	
Semester 2	
108582 Seminar 2 (Non-credit)	1(0-3-1)
108594 Thesis 4, Type A1	9 credits
Total	9 credits

1.2 Course Content

For Plan A Type A 1, student must enroll thesis with a minimum of 36 credits and the following non-credit courses: Research Methodology in Science and Technology (3 credits), Seminar 1 (1 credit) and Seminar 2 (1 credit). For those who have completed a Bachelor's degree in certain field, it is at the discretion of the curriculum responsible committees.

1) Thesis	36	credits
2) Non-credit required courses	5	credits
Total	36	credits

However, the curriculum responsible committees may request student to take additional courses or take other academic activities without counting credits but must have achievements as specified by the university and students must participate in academic activities including attending a seminar class or making a presentation in a seminar class at least once per semester for a total of not less than 4 semesters.

Total Course Content		Minimum	36	credits
Thesis				
108591	Thesis 1, Type A1		9	credits
108592	Thesis 2, Type A1		9	credits
108593	Thesis 3, Type A1		9	credits
108594	Thesis 4, Type A1		9	credits
Non-Credit Courses			5	credits
108522	Research Methodology in Science and Technology			3(3-0-6)
108581	Seminar 1			1(0-3-1)
108582	Seminar 2			1(0-3-1)

Graduation Conditions:

Graduation Criteria according to Naresuan University Regulations on Graduate Studies 2016 and (amended) No. 3 (2018).

No. 27 Conducting Thesis

(7) Thesis Examination and Examination Report

The oral thesis examination must be systematically open to interested parties. When students pass the oral thesis examination, the Thesis Examination Committee must report the results to the Graduate School within 2 weeks after the date of the thesis examination.

No. 28 Nominations for Degree Approval

In the last semester of the 2-years course, students must submit an expected graduation report to the university with the approval of the advisor within 4 weeks from the start date of the semester.

Students nominated for approval to receive a degree must meet the following conditions:

- Have a defined study period
- Complete the registration as required by the course
- Pass the English proficiency test as announced by the university
- Presenting a thesis and passing an oral examination, which is systematically open to interested people
- The thesis or part of the thesis must be published or at least accepted for publication as a research article in a national or international journal of quality according to the Higher Education Commission's Announcement on Criteria for Consideration of an Academic Journal for disseminating academic works
- Participation in academic activities including:
 - Organizing seminars and presenting work at least one time/semester for at least 2 semesters and students are required to attend every seminar classes throughout their study period
 - Attending and meeting at least 1 national or international academic symposium

Applicant Qualifications:

Requirements for admission to the program:

- 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, Type A 1
- 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 of 417 or
 - A minimum internet based TOEFL of 35 or
 - A minimum IELTS score of 5.0
- Passing the oral examination. Applicants for Plan A, Type 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, Type 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:

- The undergraduate students who are in the final semester holding a minimum GPA of 2.5 may apply as provisional students for admission to Plan A Type A 2.
- 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:

- Applicants for Plan A Type 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 Type 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.

Contact:

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* * * The application procedure will complete when TICA has received the hard copy of the application form and other related documents through the Royal Thai Embassy/Permanent Mission of Thailand to the United Nations/Royal Thai Consulate – General accredited to eligible countries/territories.