

Master & Doctor of Philosophy Programs in Applied Microbiology

Research Fields

Applied Microbiology
Microbial Diversity
Environmental Microbiology
Medical Microbiology
Industrial Microbiology
Microbial Genomics

Microbial Resources and Application
Microbial Technology
Agricultural Microbiology
Food Microbiology
Molecular Microbiology



For more information,
please visit the following website.
www.biology.science.cmu.ac.th



Master of Science Program in Applied Microbiology (International Program)

Type 1 (Plan A Type A1)

Degree Requirements 36 credits

A. Thesis

215797 Master's Thesis 36 credits

B. Academic Activities

- 1) The whole or a part of the thesis of a student must be published or accepted for publication in an ACI journal or in an international journal indexed in ISI, SCOPUS, IEEE, PubMed, or Web of Science (at least 1 article is required); and must be presented in a national or an international academic conference that is accepted in the program (at least 1 presentation is required). The student must be the first author affiliated with "Master of Science Program in Applied Microbiology (International Program), Faculty of Science, Chiang Mai University" in the main publication and presentation. A granted patent or petty patent can be accepted instead of a published paper.
- 2) Every student is required to submit a progress report to the Graduate School every semester, which is to be approved by the Chairman of the Faculty's Graduate Study Committee and reported to the University's Graduate School.

C. Non-credit Courses

- 1) Graduate School requirement a foreign language
- 2) Program requirements
 - 2.1) Every student is required to take the following Seminar courses:
 - 215791 M.S. Seminar in Applied Microbiology 1
 - 215792 M.S. Seminar in Applied Microbiology 2
 - 215790 M.S. Seminar in Applied Microbiology 3
 - 2.2) A student may take courses necessary for his/ her thesis under the recommendation of the thesis advisor.

Type 2 (Plan A Type A2)

Degree Requirements Total a minimum of 36 credits

A. Coursework

a minimum of 21 credits

- 1) Graduate Courses

a minimum of 21 credits

- 1.1) Field of Specialization a minimum of 15 credits

Courses in the Field of Specialization are courses in graduate level in Microbiology.

- 1.1.1) Required Courses 2 credits

215791 M.S. Seminar in Applied Microbiology 1 1 credit

215792 M.S. Seminar in Applied Microbiology 2 1 credit

- 1.1.2) Elective course a minimum of 13 credits
(2157...courses listed below or additional 2157...courses)

215711	Food Bacteriology	3	credits
215713	Plant Virology	3	credits
215732	Advanced Yeast Genetics	3	credits
215733	Bacterial Genomics	3	credits
215734	Molecular Microbiology and Immunology Technology	3	credits
215741	Physiology of Fungi	3	credits
215742	Advanced Physiology of Plant Diseases	3	credits
215743	Advanced Bacterial Physiology	3	credits
215744	Advanced Microbial Pathogenesis	3	credits
215752	Methods in Microbiology	3	credits
215761	Advanced Taxonomy of Slime Molds, Pseudofungi and Lower Fungi	3	credits
215762	Advanced Taxonomy of Higher Fungi	3	credits
215771	Soil Bacteriology	3	credits
215780	Alternative Energy from Microorganisms	3	credits
215781	Microbial Technology	3	credits
215782	Algal Technology	3	credits
215783	Advanced Microbial Enzyme Technology	3	credits
215784	Microbial Process Development	3	credits
215785	Advanced Microbiology	3	credits
215787	Molecular Virology	3	credits
215788	Manuscript Preparation for Microbiological Publication	1	credit
215793	Selected Topics in Microbial Technology	1	credit
215794	Selected Topics in Microbial Technology	2	credits
215795	Selected Topics in Microbial Technology	3	credits
1.2)	Other Courses (if any)	a maximum of	6 credits
1.2.1)	Required Courses	none	
1.2.2)	Elective Courses (if any)	a maximum of	6 credits

A student may take elective courses related to the field of his/her thesis under the recommendation of the thesis Advisor.

2) Advanced Undergraduate Courses none

B. Thesis

215799	Master's Thesis	15	credits
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C. Non-credit Courses

1) Graduate School requirement:	a foreign language
2) Program requirement	none

D. Academic Activities

The whole or a part of the thesis of a student must be published or accepted for publication in an ACI journal or in an international journal indexed in ISI, SCOPUS, IEEE, PubMed

or Web of Science (at least 1 article is required); or must be published as a full paper in the proceedings of an international academic conference that is accepted in the program (at least 1 article is required). The student must be the first author affiliated with “Master of Science Program in Applied Microbiology (International Program), Faculty of Science, Chiang Mai University)” in the main publication. A granted patent or petty patent can be accepted instead of a published paper.