

# 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](http://www.biology.science.cmu.ac.th)



## Doctor of Philosophy Program in Applied Microbiology (International Program)

### Type 1.1: Student with Master's Degree

Degree Requirements	48	credits
<b>A. Thesis</b>	48	credits
215898 Doctoral Thesis	48	credits

#### B. Academic activities

- 1) The whole or a part of the thesis of a student must be published or accepted for publication in international journals. (at least 2 articles are required; one must be in a journal indexed in ISI, SCOPUS, IEEE, PubMed, or Web of Science). In at least one publication, the student must be the first author affiliated with “Doctor of Philosophy Program in Applied Microbiology (International Program), Faculty of Science, Chiang Mai University”. The student must also give a presentation of the work or part of the work of the thesis in an international academic conference that is accepted in the program (at least 1 presentation is required). A maximum of one 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) A student has to take following seminar courses:
    - 215891 Ph.D. Seminar in Applied Microbiology 1
    - 215892 Ph.D. Seminar in Applied Microbiology 2
    - 215893 Ph.D. Seminar in Applied Microbiology 3
  - 2.2) A student may take courses necessary for his/her thesis under the recommendation of the thesis advisor.

#### D. Qualifying Examination

1. A student must complete a qualifying examination within the first year to evaluate his/her ability before submitting a thesis proposal.
2. An approved transfer student must take a qualifying examination within the first semester after the transfer.
3. An unsuccessful examinee is eligible for re-examination by submitting an application for re-examination. The re-examination has to be completed within the next semester after the first examination.
4. An unsuccessful examinee may be transferred to a Master Degree program with the approval of the Graduate Program Administrative Committee.

### 3.1.2.2 Type 1.2: Student with Bachelor's Degree

Degree Requirements	72	credits
<b>A. Thesis</b>	72	credits

**B. Academic Activities**

- 1) The whole or a part of the thesis of a student must be published or accepted for publication in international journals indexed in ISI, SCOPUS, IEEE, PubMed, or Web of Science for (at least 2 articles are required). In at least one publication, the student must be the first author affiliated with “Doctor of Philosophy Program in Applied Microbiology (International Program), Faculty of Science, Chiang Mai University”. The student must also give a presentation of the work or part of the work of the thesis in an international academic conference that is accepted in the program (at least 1 presentation is required). A maximum of one 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) A student has to take following seminar courses:
    - 215891 Ph.D. Seminar in Applied Microbiology 1
    - 215892 Ph.D. Seminar in Applied Microbiology 2
    - 215893 Ph.D. Seminar in Applied Microbiology 3
    - 215894 Ph.D. Seminar in Applied Microbiology 4
  - 2.2) A student may take courses necessary for his/her thesis under the recommendation of the thesis advisor.

**D. Qualifying Examination**

- 1) A student must complete a qualifying examination within the first year to evaluate his/her ability before submitting a thesis proposal.
- 2) An approved transfer student must take a qualifying examination within the first semester after the transfer.
- 3) An unsuccessful examinee is eligible for re-examination by submitting an application for re-examination. The re-examination has to be completed within the next semester after the first examination.
- 4) An unsuccessful examinee may be transferred to a Master Degree program with the approval of the Graduate Program Administrative Committee.