

Ph.D.

Microbiology and
Microbial Technology

Graduate Elective Course

Trends and Technologies in Immune-Mediated Diseases
 Microbial Resources for Innovative Business
 Molecular Genetics and Biotechnology of Yeast
 Biological Aspects in Computational Biology
 Novel Trends in Applied Microbiology
 Biology of Intracellular Microbes
 Microbial Infection and Immunity
 Fungi and Mycotoxin in Food
 Microbial Alternative Energy
 Environmental Microbiology
 Virology of Aquatic Animals
 Fermentation Technology
 Microbiology for Industry
 Microbiological Products
 Bioprocess Technology
 Bacterial Systematics
 Microbiology of Food
 Medical Bacteriology
 Immunotechnology
 Microbial Enzymes
 Medical Mycology
 Soil Microbiology
 Yeast Genetics
 Bioremediation
 Plant Virology

Curriculum [English Program]

Program	M.Sc.		Ph.D.			
	Type	Non-coursework	Coursework	Non-coursework	Coursework	
Coursework Credit	–	21	–	–	10	24
• Required Course	–	9	–	–	–	9
• Elective Course	–	12	–	–	10	15
Dissertation Credit	39	18	48	72	38	48
Total Credit	39	39	48	72	48	72



Admission

Period: March & October

Online application via www.grad.chula.ac.th

Contact

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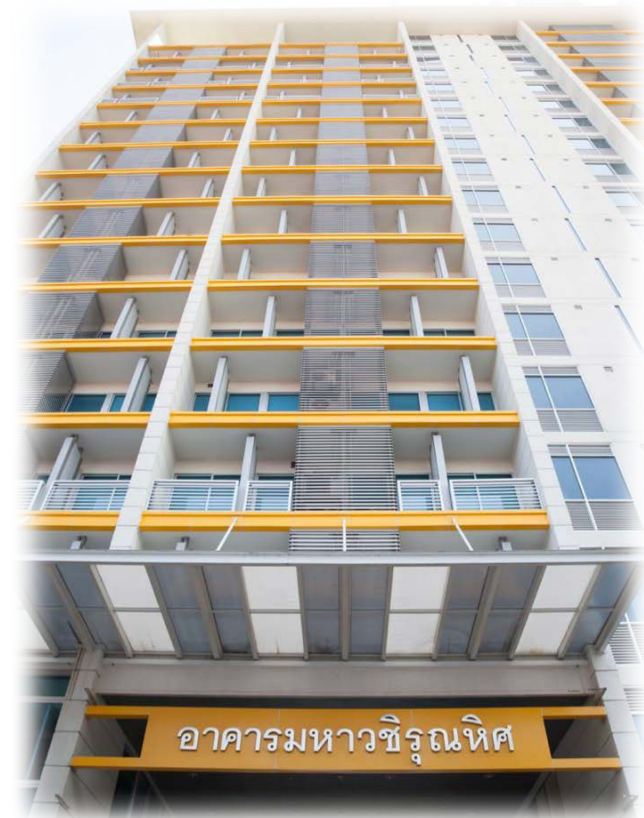
Website: www.micro.sc.chula.ac.th [microbiologysciencechula](https://www.facebook.com/microbiologysciencechula)



Graduate Program

Department of Microbiology

Faculty of Science Chulalongkorn University



M.Sc.

Microbiology and
Microbial Technology

Graduate coursework

- Research Methodology in Microbiology
- Current Techniques in Microbiology
- Advanced Microbial Physiology and Genetics
- Applied Microbiology in Industry

Scholarship & Funding

Support for Tuition Fee
Teaching Assistant Fellowship
Scholarship for International
Graduate Students
Graduate Thesis Grant
and more...

For more details: www.grad.chula.ac.th

Research

FOOD & AGRICULTURE

Green molecular factories
Mycotoxigenic fungi
Silage fermentation
Microbial biocontrol
Mycotoxin detection
Lactic acid bacteria
Fermented Food
Animal feed
Probiotics
Microalgae

Vaccine
Microbiome
Viral therapy
Neutraceutical
Drug discovery
Genome mining
Rapid diagnosis
Precision medicine
Immune-mediated diseases

HEALTH

INDUSTRY

Biomaterials for Packaging
Fermentation technology
Biochemical engineering
Metabolic engineering
Microbial enzymes
Microbial products
Biosurfactant
Bioprocess
Biopolymer
Bioenergy
Bio-leaching
Cyanobacteria
Phytoremediation
Phototropic bacteria
Extremophile bacteria
Ready-to-use bacteria
Pollutant decontamination
Biodegradation & bioremediation
Microbial resources for biobusiness

ENVIRONMENT

