

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

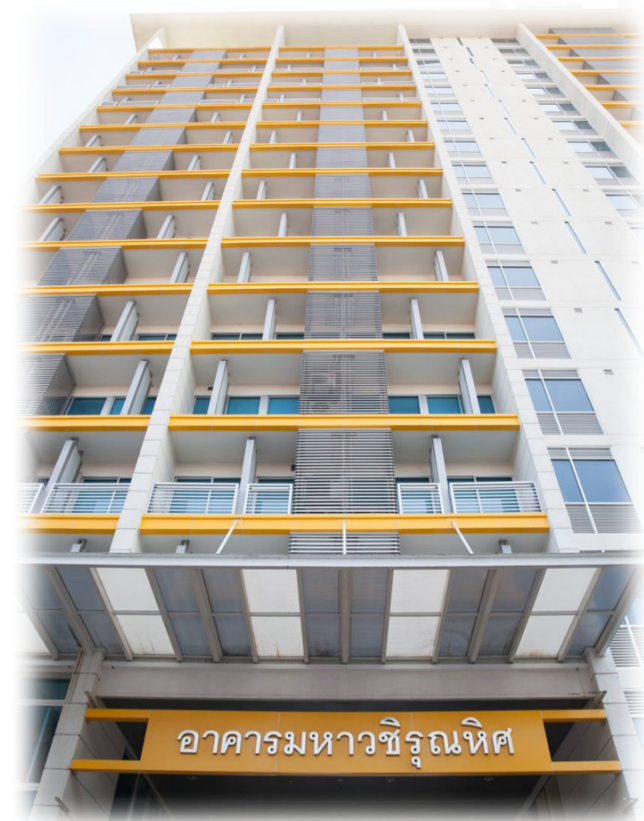
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Graduate Program

Department of Microbiology

Faculty of Science
Chulalongkorn University



อาคารมหาจักรนสิริ

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

