

Master & Doctor of Philosophy Programs in Biology

Research Fields

Fresh Water Plants and Application for Water Treatments

Phytochemistry

Plant Systematics and Evolution

Stress Physiology

Environmental Ecology

Animal Behavior

Ecology of Insects, Shells and Protozoa

Toxicology and Environmental Footprints

Ethnobotany

Postharvest Physiology

Forest Restoration

Ecological Modeling and Management

Biodiversity of Plants, Animals, and Microorganisms

Ecology and Taxonomy of General Parasitology



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



Master of Science Program in Biology

Curriculum Structure:

Type 1 [Plan A Type A1]

Degree Requirements **36 credits**

A. Thesis 36 credits

202797 Master's Thesis 36 credits

B. Academic Activities

1. A student has to organize and present a seminar on the topic related to his/her thesis once every semester for at least two semester.

2. At least 1 master's thesis work or a part of master's thesis work must be published or at least accepted to publish in a national journal listed in TCI Tier 1 database and presented the whole or a part of master's thesis work in the national conference which is accepted in that program, and at least 1 main publication of the thesis work must specify the student as the first author with the affiliation of Graduate School, Chiang Mai University.

3. A student has to report thesis progression to the Graduate School every semester, which approved by the Chairman of the Graduate Study Committee.

C. Non-credit Courses

1. Graduate School requirement : English language

2. Program requirement : none

Type 2 [Plan A Type A2]

Degree Requirements **a minimum of 36 credits**

A. Coursework a minimum of 21 credits

1. Graduate Courses a minimum of 18 credits

1.1 Field of specialization a minimum of 12 credits

1.1.1 Required courses 5 credits

202791 M.S. Seminar in Biology 1 1 credit

202792 M.S. Seminar in Biology 2 1 credit

202833 Statistics for Bioscience Research 3 credits

1.1.2 Elective courses a minimum of 7 credits

Select courses in the field of specialization related to his/her thesis, list of courses as follows and other graduated courses of Department of Biology.

202701	Protozoology	3 credits
202712	Histochemical and Cytochemical Techniques	3 credits
202716	Synthetic Plant Growth Regulators	3 credits
202718	Insect Molecular Endocrinology	3 credits
202731	Cytogenetics	3 credits
202733	Extranuclear Inheritance	3 credits
202734	Genetics for Breeding	3 credits
202735	Population Genetics	3 credits
202736	Molecular Biology	3 credits
202737	Integrated Genetics	3 credits
202738	Plant Molecular Biology	3 credits
202741	Mineral Metabolism in Plants	3 credits
202742	Endocrinology	3 credits
202743	Reproductive Physiology	3 credits
202744	Plant Metabolism	3 credits
202745	Plant Morphogenesis	3 credits
202746	Advanced Plant Morphogenesis	3 credits
202748	Postharvest Physiology	3 credits
202749	Developmental Physiology	3 credits
202755	Comparative Morphology of Vascular Plants	3 credits
202759	Independent Study for Graduate Students	3 credits
202761	Systematics and Evolution	3 credits
202762	Chemotaxonomy of Plant	3 credits
202763	Advanced Bryology	3 credits
202764	Systematics of Helminths	3 credits
202765	Taxonomy of Fruit And Seed	3 credits
202770	Tropical Plant Ecology	3 credits
202772	Tropical Animal Ecology	3 credits
202773	Limnology	3 credits
202775	Aquatic Plants	3 credits
202776	Insect Ecology	3 credits
202777	Population Dynamics	3 credits

202778	Community Ecology	3 credits
202779	Biogeography Evolution and Diversity in the Tropics	3 credits
202781	Physiology of Herbicides	3 credits
202782	Transport in Plants	3 credits
202783	Ethology	3 credits
202802	Aquatic Insects	3 credits
202803	Advances in Trematodes	3 credits
202804	Advances in Cestodes	3 credits
202807	Vocal Communication in Birds	3 credits
202832	Advanced Yeast Genetics	3 credits
202840	Physiology of Helminths	3 credits
202841	Plant Metabolic Physiology	3 credits
202843	Advances in Pomology	3 credits
202844	Secondary Compounds in Plant	3 credits
202847	Insect Growth and Metamorphosis	3 credits
202848	Postharvest Technology of Fruits	3 credits
202849	Senescence and Aging of Plants	3 credits
202851	Topics in Comparative Morphology of Gymnosperms	3 credits
202861	Topics in Taxonomy and Evolution of Angiosperms	3 credits
202873	Wildlife Conservation	3 credits
202875	Tropical Soil Ecology	3 credits
202876	Advances in Phycology	3 credits
202883	Sociobiology	3 credits
202884	Analytical Ethology	3 credits
202889	Selected Topics in Biology	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

With an approval of the advisor, a student may select any courses from other disciplines related to Biology.

2. Advance Undergraduate Courses (if any) a maximum of 3 credits

B. Thesis

202799 Master's Thesis

15 credits

C. Non-credit Courses

1. Graduate School requirement: - English language
2. Program requirement - none

D. Academic Activities

At least 1 master's thesis work or a part of master's thesis work must be published or at least accepted to publish in a national journal listed in TCI Tier 1 database or presented in the international conference with proceedings which have at least one full academic paper and at least 1 main publication of the thesis work must specify the student as the first author with the affiliation of Graduate School, Chiang Mai University.