



NEUROSCIENCE STUDENT HANDBOOK 2025

*Exploring the Mind in the
Framework of Neuroscience*



<https://mb.mahidol.ac.th/th/academic-neuroscience/>



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Administration

INSTITUTE OF MOLECULAR BIOSCIENCE ADMINISTRATORS

Assoc. Prof. Dr. M.L. Saovaros Svasti	Director
Prof. Dr. Porntip Petmitr	Deputy Director for Administration
Prof. Dr. Banthit Chetsawang	Deputy Director for Academic Affairs
Prof. Dr. Chalernporn Ongvarrasopone	Deputy Director for Planning & Quality Development
Prof. Dr. Duncan Richard Smith	Assistant Director for Research & Foreign Relations
Dr. Kittiphong Paiboonsukwong	Assistant Director for Academic Services & Social Engagement

PROGRAM ADMINISTRATIVE COMMITTEE

Prof. Emeritus Dr. Piyarat Govitrapong	Consultant
Assoc. Prof. Dr. Naiphinich Kotchabhakdi	Consultant
Asst. Prof. Dr. Sirawaj Itthipuripat	Consultant
Dr. Visit Theveeprungsriporn	Consultant
Assoc. Prof. Dr. Nuanchan Chutabhakdikul	Program Chair
Prof. Dr. Banthit Chetsawang	Committee Member
Assoc. Prof. Dr. Sujira Mukda	Committee Member
Asst. Prof. Dr. Sukonthar Ngampramuan	Committee Member
Asst. Prof. Dr. Jiraporn Panmanee	Committee Member
Lect. Dr. Siraprapa Boobphahom	Committee Member
Lect. Dr. Ekkaphot Khongkla	Committee Member
Assoc. Prof. Dr. Vorasith Siripornpanich	Committee Member & Secretary





NEUROSCIENCE GRADUATE PROGRAMS

The Graduate Program in Neuroscience at the Institute of Molecular Biosciences, Mahidol University, is the first neuroscience curriculum established in Thailand, founded in 1987. The program provides comprehensive research training that spans key areas of neuroscience—from cellular and molecular mechanisms to systems-level brain function. It is designed to cultivate a deep understanding of the brain in both normal and pathological conditions, including neurodegenerative and neuropsychiatric disorders. Through collaborations with experts in cellular and molecular biology, cognitive and behavioral neuroscience, clinical psychology, and computational neuroscience, the program offers a truly multidisciplinary approach to the study of the brain and behavior. Students can pursue diverse research topics, utilizing animal or human models, to investigate brain function in both healthy and diseased states. The program offers comprehensive coursework and research opportunities designed to promote both breadth and depth of knowledge in neuroscience. Areas of study include:

- Neurodegeneration and Neuroprotection
- Electrophysiology and Neuroimaging studies of brain function
- Child and Adolescent Brain Development
- Neurodevelopmental Disorders
- Biomarkers and Pathogenesis of Brain Disorders
- Stem Cell Research and Extracellular Vesicles
- Drug Discovery and Structure-Based Design
- Biosensors and Nanomaterial Applications in Neuroscience
- OMICs Technologies in Neuroscience



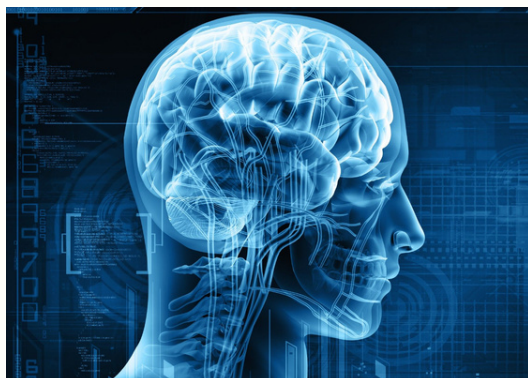
Education Philosophy

M.SC. NEUROSCIENCE

The M.Sc. Neuroscience Program is to generate qualified neuroscientists and experts who have strong neuroscience knowledge and research skills to serve the public and private sectors and apply neuroscience knowledge for the benefit of society and mankind.

PH.D. NEUROSCIENCE

The Ph.D. Neuroscience program is to produce doctoral graduates who achieve learning both in breadth and depth in neuroscience, possess research skills for working globally, think analytically and synthesize new knowledge, possess life-long learning skills and be able to apply neuroscience knowledge for the benefit of society and mankind.





CURRICULUM STRUCTURES

MASTER PROGRAM

The M.Sc. Neuroscience program consists of 24 credits of coursework and 12 credits of a research thesis. Possible transfer to the Ph.D. program after completion of the coursework with a GPAX not less than 3.5. The request for transfer to the doctoral program will be considered by the curriculum committee on the basis of the academic performance of the applicant.

Year	Semester 1	Semester 2
1	SCID 500 Cell & Mol Biology 3(3-0-6) MBNS 600 Neurobiology 3(2-2-5) MBNS 605 Neurochemistry 2(2-0-4) Elective courses 4 credits Total 12 credits	MBNS 603 Neuropsychopharmacology 2(2-0-4) MBNS 650 Developmental Neuroscience 2(2-0-4) MBNS 604 Research Methodology and Techniques in Neuroscience 3(2-2-5) MBNS 608 Laboratory Rotation Training in Neuroscience 2(0-4-2) Elective course 1 credit Total 10 credits
2	MBNS 691 Seminar in Neuroscience 1(1-0-2) MBNS 698 Thesis 8(0-24-0) Total 9 credits	MBNS 695 Seminars in Current Research in Neuroscience 1(1-0-2) MBNS 698 Thesis 4(0-12-0) Total 5 credits

DOCTORAL PROGRAM

The Ph.D. in Neuroscience curriculum offers two study plans.

Plan 1.1 For students with a Master's Degree with research experience.
 No coursework is required, only conduct the dissertation for 48 credits.

Year	Semester 1	Semester 2
1	(Qualifying Examination) MBNS 898 Dissertation 8(0-24-0) Total 8 credits	MBNS 898 Dissertation 8(0-24-0) Total 8 credits
2	MBNS 898 Dissertation 8(0-24-0) Total 8 credits	MBNS 898 Dissertation 8(0-24-0) Total 8 credits
3	MBNS 898 Dissertation 8(0-24-0) Total 8 credits	MBNS 898 Dissertation 8(0-24-0) Total 8 credits

Notes:

- 1) Students are encouraged to attend Ph.D. seminars to present the thesis progress report every semester.
- 2) Students complete the qualifying examination within the first semester and must pass the qualifying examination before registering for the dissertation credits..

Plan 2.1 is designed for students who hold an M.Sc. degree. Students are required to complete a minimum of 12 credits of coursework, along with a dissertation worth 36 credits. The total number of credits required to fulfill the degree requirements amounts to 48 credits

Year	Semester 1	Semester 2
1	MBNS 753 Clinical Neuroscience 2(2-0-4) MBNS 755 Advanced Neuroscience 2(2-0-4) MBNS 790 Doctoral Seminars in Neuroscience 1(1-0-2) Elective courses 4 credits Total 9 credits	MBNS 794 Doctoral Seminars in Integrated Neuroscience 1(1-0-2) Elective courses (Qualifying Examination) 2 credits MBNS 699 Dissertation 4(0-12-0) Total 7 credits
2	MBNS 699 Dissertation 8(0-24-0) Total 8 credits	MBNS 699 Dissertation 8(0-24-0) Total 8 credits
3	MBNS 699 Dissertation 8(0-24-0) Total 8 credits	MBNS 699 Dissertation 8(0-24-0) Total 8 credits

Notes:

1) Students without prior background knowledge in neuroscience must register for the MBNS 610 Introductory Neuroscience as a prerequisite course before starting the first semester of the first year. The prerequisite course will not count towards a requirement to complete the degree. Students must pass the assessment criteria of that course and it will grant only the "audit (AU)" grade.

2) Students must pass the qualifying examination before registering for the dissertation credits.

Plan 2.2 is designed for students holding a Bachelor's Degree. Students are expected to undertake at least 24 credits of coursework and conduct a dissertation for 48 credits. The total credits that count towards a requirement to complete the degree are 72 credits.

Year	Semester 1	Semester 2
1	MBNS 600 Neurobiology 3(2-2-5) MBNS 605 Neurochemistry 2(2-0-4) Elective courses 4 credits Total 9 credits	MBNS 603 Neuropsychopharmacology 2(2-0-4) MBNS 604 Research Methodology and Techniques in Neuroscience 3(2-2-5) MBNS 650 Developmental Neuroscience 2(2-0-4) Elective courses 2 credits Total 9 credits
2	MBNS 753 Clinical Neuroscience 2(2-0-4) MBNS 755 Advanced Neuroscience 2(2-0-4) MBNS 790 Doctoral Seminars in Neuroscience (Qualifying Examination) 1(1-0-2) Total 5 credits	MBNS 794 Doctoral Seminars in Integrated Neuroscience 1(1-0-2) MBNS 799 Dissertation 8(0-24-0) Total 9 credits
3	MBNS 799 Dissertation 10(0-30-0) Total 10 credits	MBNS 799 Dissertation 10(0-30-0) Total 10 credits
4	MBNS 799 Dissertation 10(0-30-0) Total 10 credits	MBNS 799 Dissertation 10(0-30-0) Total 10 credits

Notes:

1) Students must pass the qualifying examination before registering for the dissertation credits.



LIST OF COURSES

Credits (lecture-lab-self-study)

Foundation Course

MBNS 610 Introductory Neuroscience 1(1-0-2)

Required Courses

SCID 500 Cell & Molecular Biology 3(3-0-6)
MBNS 600 Neurobiology 3(2-2-5)
MBNS 603 Neuropsychopharmacology 2(2-0-4)
MBNS 604 Research Methodology and Techniques in Neuroscience 3(2-2-5)
MBNS 605 Neurochemistry 2(2-0-4)
MBNS 608 Laboratory Rotation Training in Neuroscience 2(0-4-2)
MBNS 650 Developmental Neuroscience 2(2-0-4)
MBNS 691 Seminars in Neuroscience 1(1-0-2)
MBNS 695 Seminars in Current Research in Neuroscience 1(1-0-2)
MBNS 753 Clinical Neuroscience 2(2-0-4)
MBNS 755 Advanced Neuroscience 2(2-0-4)
MBNS 790 Doctoral Seminars in Neuroscience 1(1-0-2)
MBNS 794 Doctoral Seminars in Integrated Neuroscience 1(1-0-2)

Elective courses

MBNS 606 Current Topics in Neuroscience 2(2-0-4)
MBNS 651 Neuroendocrinology 2(2-0-4)
MBNS 655 Pathogenesis of Neurological Diseases 2(2-0-4)
MBNS 658 Animal Experimentation in Neuroscience 1(0-2-1)
MBNS 659 Microtechniques in Neuroscience Research 1(0-2-1)
MBNS 751 Research Methods in Cellular and Molecular Neuroscience 2(1-2-3)
MBNS 752 Research Methods in Cognitive Neuroscience 2(1-2-3)
MBNS 754 Selected Topics in Contemporary Neuroscience 2(2-0-4)
MBNS 756 Behavioral and Cognitive Neuroscience 2(2-0-4)
MBNS 757 Drug Development for Neurological Diseases 2(1-2-3)

Dissertation

MBNS 698 Thesis (M.Sc.) 12(0-36-0)
MBNS 699 Dissertation (Ph.D. plan 2.1) 36(0-108-0)
MBNS 799 Dissertation (Ph.D. plan 2.2) 48(0-144-0)
MBNS 898 Dissertation (Ph.D. plan 1.1) 48(0-144-0)



For more details:

<https://mb.mahidol.ac.th/th/academic-neuroscience/>





Course Descriptions

Foundation Course

MBNS 610 Introductory Neuroscience

1(1-0-2)

Definitions and scope of neuroscience; the basic knowledge of neurons and the nervous tissue; generations of nerve impulses; neurotransmitters and hormones; an introduction to neuroanatomy; the external structure of the central nervous system; the early development of the nervous system; basic principles of the neuroscience research.

Required Courses

SCID 500 Cell & Molecular Biology

3(3-0-6)

Cell structure and function; life and information flow in the cell, energy flow in biosystem; cell signaling; cell division; cellular differentiation; cell death and development.

MBNS 600 Neurobiology

3(2-2-5)

Current theories and laboratory practice on the human nervous system; the relationship between the nervous system and behaviors; the ultrastructure of cells in the nervous tissue; cellular functions of neurons and glial cells; electrophysiology of the neuron; supporting structures of the central nervous system; the internal organization of the spinal cord, brainstem, cerebellum, and forebrain; the motor system and the control of movement; the sensory system and special sensory organs; brain and the control of homeostasis; emotion and motivation; memory and learning; higher cognitive functions of the cerebrum, language and the executive function; the evolution of the nervous system.

MBNS 603 Neuropsychopharmacology

2(2-0-4)

Drug actions on the nervous system comprise areas of the investigation of critical importance to science and medicine; the mechanisms by which drugs alter brain functions; medications used to treat a wide range of neurological and psychiatric disorders; and drugs of abuse.

MBNS 604 Research Methodology and Techniques in Neuroscience

3(2-2-5)

The principles and methods used in the research process in neuroscience; fundamental skills required to assess the data generation and collecting; research ethics; research strategy and design; research practice; writing up research proposals; data analyses and interpretation; and presentations of the research results.

MBNS 605 Neurochemistry

2(2-0-4)

Principles of the chemical transmission; the second messenger; the signaling transduction; the neurotransmitters; neurotransmitter receptors; the nuclear hormone receptor signaling; advances in the neuronal stem cell research and the molecular modeling for neuroscience.

MBNS 608 Laboratory Rotation Training in Neuroscience

2(0-4-2)

Rotation training in different neuroscience laboratories; experimental design; performing experiments with research ethics awareness; analyzing and interpreting the experimental data; presentations of the results via a short seminar; research report.





Required Courses (cont.)

MBNS 650 Developmental Neuroscience

2(2-0-4)

Current concepts concerning the cellular and molecular mechanisms of the brain development e.g., the neural induction and neurulation; the neural patterning; the neurogenesis; the neural determination and differentiation; the neural migration and cortical lamination; the axonal growth and guidance; the synapse formation and refinement; the programmed cell death; Roles of neurotrophic factors in brain development; the development of interneurons; the development of glial cells; the development of the neural crest; neural regeneration and repair; the neural correlate of the behavioral development; and factors affecting the brain development.

MBNS 691 Seminars in Neuroscience

1(1-0-2)

Presentations and discussions articles from technical journals; the content area of the thesis conduction in neuroscience; morality and ethics of being a neuroscientist.

MBNS 695 Seminars in Current Research in Neuroscience

1(1-0-2)

Presenting and discussing articles about the current research in neuroscience; the research articles integration; the correlation of selected research topics with the thesis research.

MBNS 753 Clinical Neuroscience

2(2-0-4)

The classification of neurological and psychiatric diseases; symptomatology of neurological diseases; headache and the migraine headache; common neurological diseases in children and adults; brain developmental disorders; common psychiatric diseases; schizophrenia; mood disorders; the neurological examination; electroencephalography; psychiatric interviews and the mental status examination; neuropsychological tests; consciousness and its disorder; the sleep medicine.

MBNS 755 Advanced Neuroscience

2(2-0-4)

Advanced knowledge and cutting-edge tools for neuroscience research; tracking advancements and shifting trends knowledge in neuroscience; the novel research ideas from discussion and presentation by acknowledging proper resources and using accurate citation.

MBNS 790 Doctoral Seminars in Neuroscience

1(1-0-2)

Searching and gathering advanced knowledge in neuroscience in the field of interest; practicing scientific presentation skills; ethics in research citation.

MBNS 794 Doctoral Seminars in Integrated Neuroscience

1(1-0-2)

Integrate knowledge from a variety of neuroscience disciplines to develop a future research question; Practice scientific presentation skills; Ethics in research citation.

Elective courses

MBNS 606 Current Topics in Neuroscience

2(2-0-4)

Interpretations; critical reviews and discussions of recent special articles, reviewing articles or research articles related to the current knowledge and technology in neuroscience.

MBNS 651 Neuroendocrinology

2(2-0-4)

Theoretical and experimental studies of the relationships between the nervous system and the endocrine glands; neural controls of endocrine functions; endocrine and hormonal influences on the development and function of the nervous system and their behavioural correlates to organs.



Elective courses (cont.)

MBNS 655 Pathogenesis of Neurological Diseases

2(2-0-4)

Mechanism of neurological diseases; inflammation; neural and glia response to the injury; the pathological investigation; brain edema and hydrocephalus; neurogenetic diseases; aging and neurodegenerative diseases; autoimmune diseases of the central nervous system; the cerebrovascular disease; the brain tumor; the CNS infection; the congenital central nervous system malformation; brain and spinal cord injuries; toxic and metabolic diseases of the nervous system; neurocutaneous syndromes; clinico-pathological correlation.

MBNS 658 Animal Experimentation in Neuroscience

1(0-2-1)

Practice animal research techniques in neuroscience, ethical conduct following animal ethic rules, comprehensive knowledge in animal research techniques to solve scientific research questions.

MBNS 659 Microtechniques in Neuroscience Research

1(0-2-1)

Practical sessions of the paraffin method, cryosectioning and immunohistochemical techniques; the analyses and discussions of results.

MBNS 751 Research Methods in Cellular and Molecular Neuroscience

2(1-2-3)

The in-depth knowledge of the research design and methods used in the cellular and molecular neuroscience research; the experimental design, data analyses and interpretations; presentations of the research results; techniques to analyze the anatomical and chemical changes of the cells, proteins, or genes in the nervous system

MBNS 752 Research Methods in Cognitive Neuroscience

2(1-2-3)

Principles and methods used in the cognitive neuroscience; electro-encephalography; the evoked potential; the event-related potential; the quantitative electroencephalography (EEG); the enterprise resource planning (ERP) waveforms; human executive functions; methods for assessing the executive function control nervous system (EF); neuroimaging; neuropsychological tasks; cognitive tasks for higher brain functions; medical ethics.

MBNS 754 Selected Topics in Contemporary Neuroscience

2(2-0-4)

An independent study on selected topics of the contemporary neuroscience research, related to neurological and mental health problems; effects of the brain and behaviors in children; aging of the brain and the neurodegeneration such as Alzheimer's disease; substance abuses; the stress and stress management; new innovative technologies in the neuroscience research; developing concept papers and giving presentations to the class.

MBNS 756 Behavioral and Cognitive Neuroscience

2(2-0-4)

An association among the brain, the mind, and the behaviors; neurobiology of the cognition; genetic and molecular aspects of cognitive functions; animal models for behavioral studies; an assessment of animal behaviors; psychopathology; electro-encephalography and event-related potentials (ERP); neuropsychological tests; neuroimaging; the human cognition; executive functions; the social behaviors and social cognition; the multiple intelligence.

MBNS 757 Drug Development for Neurological Diseases

2(1-2-3)

The fundamentals of drug development and discovery; drug targets relevant to neurological and neuropsychiatric diseases; biomarker identification in neurological diseases; the concepts and strategies of target identification and validation in drug development; the principles of target-based screening in computer-aided drug design; bioinformatics tools for drug developments; lead identification and optimization; various classes of therapeutic agents; Legal and Ethical Issues in Drug Development.





CAREER OPPORTUNITIES

What to do with a Neuroscience degree?

Neuroscience students can go into a number of career areas, including clinical sciences, biotechnology, artificial intelligence, health science, the pharmaceutical industry, teaching and neuropsychology

Academic Researcher / University Lecturer

Clinical Researcher / Hospital-based Neuroscience Specialist

Neuroscience Expert in Professional Practice

e.g., Neuro-Physiotherapist, Neuro-Occupational Therapist, Clinical Psychologist

R&D Neuroscientist in Pharmaceutical or Biotech Industry

e.g., Scientist in drug discovery, R&D staff at Government Pharmaceutical Organization

Neurodiagnostic and Neuroimaging Specialist

e.g., EEG/fNIRS/MRI technologist, Neuroimaging data analyst

Neuroeducator

e.g., Teacher integrating brain-based learning strategies in classrooms, Trainer designing workshops on cognitive development for educators, Specialist in neuroscience-informed curricula

Neuromarketing Specialist

Consumer Neuroscientist / Behavioral Economist

Data Scientist / Analyst in Neuroeconomics

Science Communicator / Medical Writer

e.g., Writer for brain health education, Content developer for neuroscience textbooks, Medical writer for pharmaceutical companies or scientific journals

Explore more career opportunities at
<https://neuroxcareers.org/>



FACULTY MEMBERS & CONTACT



Banthit Chetsawang, Ph.D.
Professor

Email: banthit.che@mahidol.edu



Nuanchan Chutabhakdikul, Ph.D.
Associate Professor

Email: nuanchan.chu@mahidol.edu



Vorasith Siripornpanich, Ph.D.
Associate Professor

Email: vorasith.sir@mahidol.edu



Sujira Mukda, Ph.D.
Associate Professor

Email: sujira.muk@mahidol.edu



Sukonthar Ngampramuan, Ph.D.
Assistant Professor

Email: sukonthar.nga@mahidol.edu



Jiraporn Panmanee, Ph.D.
Assistant Professor

Email: jiraporn.pam@mahidol.edu



Siraprapa Boobphahom, Ph.D.
Lecturer

Email: siraprapa.boo@mahidol.edu



Ekkaphot Khongkla, Ph.D.
Lecturer

Email: ekkaphot.kho@mahidol.edu



Scan the QR code below to learn
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interests and areas of expertise





Educational Administrative Staff



Somsong Phengsukdaeng
Academic Coordinator

Email: somsong.phe@mahidol.edu
Tel: 024419003 – 7 Ext. 1311



Prapan Premsawat
Educator

Email: prapan.pre@mahidol.ac.th
Tel: 02441-9003 – 7 Ext. 1331



Sasithorn Prommet
General Administration Assistant

Email: sasithon.pro@mahidol.edu
Tel: 02441-9003 – 7 Ext. 1330



Research Support Staff



Kronkanok Promtap
Scientist

Email: kornkanok.pro@mahidol.edu
Tel: 02441-9003 – 7 Ext. 1366



Kanda Putthaphongphuek
Experimental Production Officer

Email: kanda.put@mahidol.edu
Tel: 02441-9003 – 7 Ext. 1437

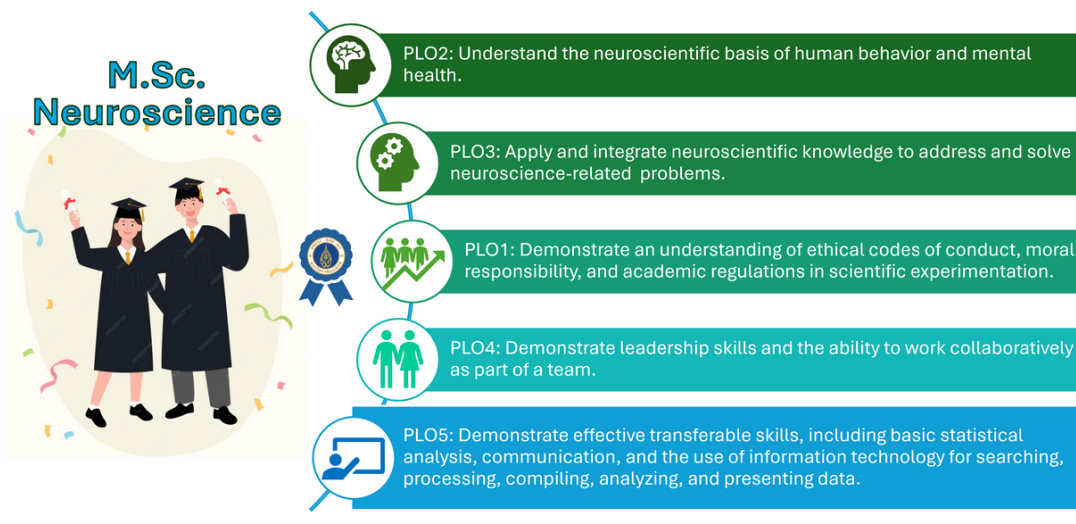


**Our support staff are
always ready to assist you,
just ask!**



APPENDIX

Program Learning Outcomes



Program Learning Outcomes





CURRICULUM MAPPING WITH THE PROGRAM LEARNING OUTCOMES

M.Sc. (Neuroscience)

Courses and Activities M.Sc. Neuroscience	PLO1	PLO2	PLO3	PLO4	PLO5
1. Foundation Course (Non-credit)					
MBNS 610 Introductory Neuroscience	-	CLO1-5 (I)	-	-	-
2. Required Courses					
SCID 500 Cell & Molecular Biology					
MBNS 600 Neurobiology	CLO1 (I)	CLO2 (I)	CLO3 (I)	CLO4 (I)	CLO4 (I)
MBNS 603 Neuropsychopharmacology	CLO1 (R)	CLO2 (R)	CLO3 (R)	CLO4 (R)	CLO5 (R)
MBNS 604 Research Methodology and Techniques in Neuroscience	CLO1 (R)	CLO4 (R)	CLO2 (R)	CLO5 (R)	CLO3 (R)
MBNS 605 Neurochemistry	CLO3 (I)	CLO1 (R)	CLO2 (R)	CLO3 (R)	CLO3 (R)
MBNS 608 Laboratory Rotation Training in Neuroscience	CLO1 (P)	CLO2 (P)	CLO3 (P)	CLO4 (P)	CLO5 (P)
MBNS 650 Developmental Neuroscience	CLO4 (R)	CLO1 (I, R) CLO2 (I, R)	CLO3 (R)	CLO4 (R)	CLO4 (R)
MBNS 691 Seminars in Neuroscience	CLO4 (P)	CLO1 (P)	CLO2 (P)	CLO5 (P)	CLO3 (P)
MBNS 695 Seminars in Current Research in Neuroscience	CLO4 (P)	CLO1 (P)	CLO2 (P)	CLO5 (P)	CLO3 (P)
3. Elective Courses					
MBNS 606 Current Topics in Neuroscience	CLO3 (R)	CLO1 (R)	CLO2 (R)	CLO3 (R)	CLO3 (R)
MBNS 651 Neuroendocrinology	CLO3(I)	CLO1(P) CLO2(P)	-	-	CLO3(P)
MBNS 655 Pathogenesis and neurological disease	CLO1 (R)	CLO2 (R)	CLO3 (R)	CLO4 (R)	CLO4 (R)
MBNS 658 Animal Experimentation in Neuroscience	CLO1 (P)	CLO2 (P)	CLO3 (P)	CLO4 (P)	CLO5 (P)
MBNS 659 Microtechniques in Neuroscience Research	CLO1 (P)	CLO2 (P)	CLO3 (P)	CLO4 (P)	CLO5 (P)
4. MBNS 698 Thesis					
Proposal Examination	P/A	P/A	P/A	P/A	P/A
Ethical Approval	P	P	P	P	P
Research Progress Evaluation	P/A	P/A	P/A	P/A	P/A
Dissertation	M/A	M/A	M/A	M/A	M/A
Research Publication	M	M	M	M	M

I=Introduce; R=Reinforce; P=Practice; M=Mastery; A=Assessment



CURRICULUM MAPPING WITH THE PROGRAM LEARNING OUTCOMES

Ph.D. Neuroscience (Plan 1.1)

Thesis Activities Ph.D. Plan 1.1	PLO1	PLO2	PLO3	PLO4	PLO5
Qualifying Examination	P/A	P/A	P/A	P/A	P/A
Proposal Examination	P/A	P/A	P/A	P/A	P/A
Ethical Approval	P	P	P	P	P
Research Progress Evaluation	P/A	P/A	P/A	P/A	P/A
Dissertation	M/A	M/A	M/A	M/A	M/A
Research Publication	M	M	M	M	M

I=Introduce; R=Reinforce; P=Practice; M=Mastery; A=Assessment

Ph.D. Neuroscience (Plan 2.1)

Course and Activities Ph.D. Plan 2.1	PLO1	PLO2	PLO3	PLO4	PLO5
1. Foundation Course (Non-credit)					
MBNS 610 Introductory Neuroscience	-	CLO1-5 (I)	-	-	-
2. Required Courses					
MBNS 753 Clinical Neuroscience	CLO1 (R)	CLO2 (R) CLO3 (R)	-	CLO4 (R)	CLO5 (R)
MBNS 755 Advanced Neuroscience	CLO1 (R) CLO3 (R)	CLO1 (R) CLO2 (R)	CLO2 (R)	CLO3 (R)	CLO3 (R)
MBNS 790 Doctoral Seminars in Neuroscience	CLO4 (P)	CLO1 (P)	CLO2 (P)	CLO5 (P)	CLO3 (P)
MBNS 794 Doctoral Seminars in Integrated Neuroscience	CLO4 (P)	CLO1 (P)	CLO2 (P)	CLO5 (P)	CLO3 (P)
3. Elective Courses					
MBNS 751 Research Methods in Cellular and Molecular Neuroscience	CLO1 (P)	CLO2 (P)	CLO3 (P)	CLO4 (P)	CLO5 (P)
MBNS 752 Research Methods in Cognitive Neuroscience	CLO4 (P)	CLO1 (P)	CLO2 (P)	CLO4 (P) CLO5 (P)	CLO3 (P)
MBNS 754 Selected Topics in Contemporary Neuroscience	CLO3 (P)	CLO1 (P)	CLO2 (P) CLO3 (P)	CLO4 (P)	CLO4 (P)
MBNS 756 Behavioral and Cognitive Neuroscience	CLO1 (R)	CLO2 (R) CLO3 (R) CLO4 (R)	CLO5 (R)	-	CLO6 (R)
MBNS 757 Drug Development for Neurological Diseases	CLO2 (R)	CLO1 (P) CLO2 (P) CLO4 (P)	CLO3 (P)	CLO5 (R)	CLO2 (P) CLO4 (P)
4. MBNS699 Dissertation					
Qualifying Examination	P/A	P/A	P/A	P/A	P/A
Proposal Examination	P/A	P/A	P/A	P/A	P/A
Ethical Approval	P	P	P	P	P
Research Progress Evaluation	P/A	P/A	P/A	P/A	P/A
Dissertation	M/A	M/A	M/A	M/A	M/A
Research Publication	M	M	M	M	M

I=Introduce; R=Reinforce; P=Practice; M=Mastery; A=Assessment



CURRICULUM MAPPING WITH THE PROGRAM LEARNING OUTCOMES

Ph.D. Neuroscience (Plan 2.2)

Course and Activities Ph.D. Plan 2.2	PLO1	PLO2	PLO3	PLO4	PLO5
1. Foundation Course (Non-credit)					
MBNS 610 Introductory Neuroscience	-	CLO1-5 (I)	-	-	-
2. Required courses					
MBNS 600 Neurobiology	CLO1 (I)	CLO2 (I)	CLO3 (I)	CLO4 (I)	CLO4 (I)
MBNS 603 Neuropsychopharmacology	CLO1 (R)	CLO2 (R)	CLO3 (R)	CLO4 (R)	CLO5 (R)
MBNS 604 Research Methodology and Techniques in Neuroscience	CLO1 (R)	CLO4 (R)	CLO2 (R)	CLO5 (R)	CLO3 (R)
MBNS 605 Neurochemistry	CLO3 (I)	CLO1 (R)	CLO2 (R)	CLO3 (R)	CLO3 (R)
MBNS 650 Developmental Neuroscience	CLO4 (R)	CLO1 (I, R) CLO2 (I, R)	CLO3 (R)	CLO4 (R)	CLO4 (R)
MBNS 753 Clinical Neuroscience	CLO1 (R)	CLO2 (R) CLO3 (R)	-	CLO4 (R)	CLO5 (R)
MBNS 755 Advanced Neuroscience	CLO1 (R) CLO3 (R)	CLO1 (R) CLO2 (R)	CLO2 (R)	CLO3 (R)	CLO3 (R)
MBNS 790 Doctoral Seminars in Neuroscience	CLO4 (P)	CLO1 (P)	CLO2 (P)	CLO5 (P)	CLO3 (P)
MBNS 794 Doctoral Seminars in Integrated Neuroscience	CLO4 (P)	CLO1 (P)	CLO2 (P)	CLO5 (P)	CLO3 (P)
3. Elective courses					
MBNS 606 Current Topics in Neuroscience	CLO3 (R)	CLO1 (R)	CLO2 (R)	CLO3 (R)	CLO3 (R)
MBNS 651 Neuroendocrinology	CLO3(I)	CLO1(P) CLO2(P)	-	-	CLO3(P)
MBNS 655 Pathogenesis and neurological disease	CLO1 (R)	CLO2 (R)	CLO3 (R)	CLO4 (R)	CLO4 (R)
MBNS 751 Research Methods in Cellular and Molecular Neuroscience	CLO1 (P)	CLO2 (P)	CLO3 (P)	CLO4 (P)	CLO5 (P)
MBNS 752 Research Methods in Cognitive Neuroscience	CLO4 (P)	CLO1 (P)	CLO2 (P)	CLO4 (P) CLO5 (P)	CLO3 (P)
MBNS 754 Selected Topics in Contemporary Neuroscience	CLO3 (P)	CLO1 (P)	CLO2 (P) CLO3 (P)	CLO4 (P)	CLO4 (P)
MBNS 756 Behavioral and Cognitive Neuroscience	CLO1 (R)	CLO2 (R) CLO3 (R) CLO4 (R)	CLO5 (R)	-	CLO6 (R)
MBNS 757 Drug Development for Neurological Diseases	CLO2 (R)	CLO1 (P) CLO2 (P) CLO4 (P)	CLO3 (P)	CLO5 (R)	CLO6 (P)
4. MBNS799 Dissertation					
Qualifying Examination	P/A	P/A	P/A	P/A	P/A
Proposal Examination	P/A	P/A	P/A	P/A	P/A
Ethical Approval	P	P	P	P	P
Research Progress Evaluation	P/A	P/A	P/A	P/A	P/A
Dissertation	M/A	M/A	M/A	M/A	M/A
Research Publication	M	M	M	M	M

I=Introduce; R=Reinforce; P=Practice; M=Mastery; A=Assessment

QUALIFYING EXAMINATION



Mahidol University
Institute of Molecular Biosciences



Guidelines for the Qualifying Examination

Ph.D. Program in Neuroscience
Institute of Molecular Biosciences, Mahidol University

Ph.D. students are required to take a Qualifying Examination (QE) within the first semester of graduate work (for Plan 1.1) or after completing all coursework (for Plans 2.1 and 2.2). The QE comprises both written and oral components that cover current knowledge across multidisciplinary fields of neuroscience, such as neurobiology, neurochemistry, neuropharmacology, neuroendocrinology, neuropathology, developmental neuroscience, clinical neuroscience, and other emerging areas when relevant (e.g., computational neuroscience, machine learning, brain-computer interfaces, neuroeconomics, neuroeducation, etc.). The QE is designed to assess the student's ability to integrate knowledge from these diverse fields to develop research questions and propose potential research approaches, while also evaluating their readiness to undertake thesis research and ensuring that they demonstrate both depth and breadth of knowledge in neuroscience, as well as the capability to track and critically engage with emerging trends in the field.

QE Structure and Requirements: There are two parts of QE: a written examination and an oral examination. The written QE consists of six questions, all of which must be completed within one day. Each question is worth 20 points, for a total of 120 points, and it accounts for 60% of the final QE score. The QE Committee will assess student responses based on a marking scheme that covers all key points. Written QE scores will be sent to individual students via email two days before the oral examination. The oral QE will be held within one week after the written examination. The oral component is worth 80 points, weighted as 40% of the final QE score. To pass the QE, students must achieve a combined total score of at least 75%.

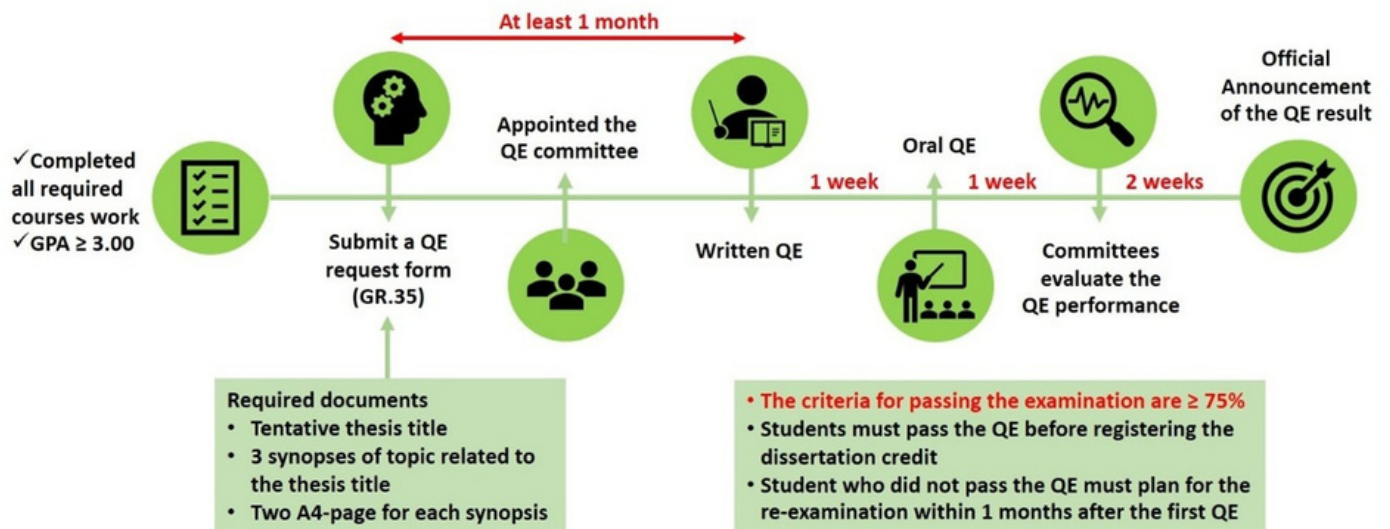
Please note that passing the QE is a prerequisite for Ph.D. students to register for dissertation credits.

If you have any questions regarding your QE scores, please contact the Chairperson of the Qualifying Examination Committee (refer to the Administrative Order of the Faculty of Graduate Studies).

Version 01-06-2025

QE PROCESS

Flow chart of QE processes for Ph.D. Neuroscience Program



THESIS PROCESS

Request for Action to Obtain a Thesis Topic
(M.Sc. – after completing coursework; Ph.D. – after completing QE)

Appointment of Thesis Proposal Examination Committee
(Issued by MB Institute Education Office)

Submit GR1 Form through MUGR Online System
(Thesis Title Approval & Appointment of Thesis Advisory Committee)

Submit Application for Human/Animal Ethical Approval
(within 90 days of advisory committee approval)

Submit GR42 Form: Thesis Progress Report
(Every semester)

Has research publications in accordance with the required criteria for M.Sc. or Ph.D. Degree

Submit GR2 Form
(Appointment of Thesis Defense Committee)

Thesis Defense

Submit GR5 Form
(Degree Request)





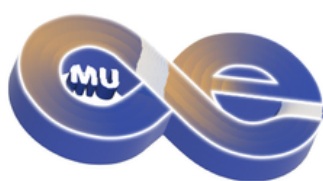
PROFESSIONAL AND PERSONAL SKILLS DEVELOPMENT

AS PART OF THE COMMITMENT TO HOLISTIC GRADUATE EDUCATION, THE UNIVERSITY PROVIDES ACCESS TO THE MAHIDOL UNIVERSITY CONTINUING EDUCATION (MUCE) PLATFORM, A COMPREHENSIVE ONLINE LEARNING SYSTEM DESIGNED TO SUPPORT STUDENTS IN DEVELOPING ESSENTIAL SOFT SKILLS ALONGSIDE THEIR ACADEMIC TRAINING. ALL GRADUATE STUDENTS ARE REQUIRED TO COMPLETE A MINIMUM OF 12 HOURS OF TRAINING ACROSS FOUR SELECTED SOFT SKILL AREAS. COURSES ARE DELIVERED IN BOTH THAI AND ENGLISH AND ARE AVAILABLE IN FLEXIBLE, SELF-PACED FORMATS THROUGH MUCE, AS WELL AS THROUGH APPROVED PROVIDERS LIKE COURSERA AND LINKEDIN LEARNING. UPON COMPLETION, STUDENTS RECEIVE DIGITAL CERTIFICATES, AND THEIR ACHIEVEMENTS ARE RECORDED IN THE OFFICIAL ACADEMIC TRANSCRIPT. THIS SOFT SKILLS DEVELOPMENT PROGRAM AIMS TO ENHANCE STUDENTS' PERSONAL AND PROFESSIONAL COMPETENCIES, PREPARING THEM NOT ONLY FOR RESEARCH AND ACADEMIC SUCCESS, BUT ALSO FOR LEADERSHIP ROLES AND DIVERSE CAREER PATHWAYS AFTER GRADUATION.

SOFT SKILLS YOU CAN DEVELOP THROUGH MUCE INCLUDE:

- COMMUNICATION AND LANGUAGE SKILLS
- LEADERSHIP AND MANAGEMENT
- CREATIVE AND INNOVATIVE THINKING
- DIGITAL AND HEALTH LITERACY
- ENTREPRENEURIAL MINDSET
- FINANCIAL AND ENVIRONMENTAL LITERACY
- CULTURAL INTELLIGENCE AND TEAMWORK
- PROBLEM-SOLVING AND CRITICAL THINKING

<https://muce.mahidol.ac.th/>



MAHIDOL UNIVERSITY
**CONTINUING
EDUCATION**

MAHIDOL UNIVERSITY CONTINUING EDUCATION (MUCE) PROVIDES COURSES NORMALLY TAUGHT AT THE POST-GRADUATE LEVELS. EVERYONE CAN STUDY IN THE PROGRAM AND TRANSFER THEIR CREDITS TO MAHIDOL UNIVERSITY'S POST-GRADUATE PROGRAMS IN THE FUTURE.



ANNOUNCEMENT

Faculty of Graduate Studies, Mahidol University Revised Academic Schedule for the Academic Year 2025

With reference to the previous announcement of the Faculty of Graduate Studies, Mahidol University, dated January 29, 2025, regarding the academic calendar and semester schedule for the academic year 2025,

To ensure alignment with Mahidol University's announcement dated February 4, 2025, regarding the academic calendar for undergraduate students (Thai program) in their first and second years at Salaya Campus, the Faculty of Graduate Studies has hereby revised the academic calendar and semester schedule for the academic year 2025 as follows:

I. Enrollment Period for Academic Year 2025

Semester	Beginning Date	End Date
1 st Semester 2025	August 4, 2025	December 15, 2025
2 nd Semester 2025	January 5, 2026	May 11, 2026
Summer 2025	June 1, 2026	July 27, 2026

II. Course registration and tuition fees for graduate students for the academic year 2025 are attached.

This announcement is hereby issued for acknowledgment.

Announced on March 5, 2025


Digitally signed
by Chartchalerm
Isarankura-na-
ayudhya
Date: 2025.03.04
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(Prof. Dr. Chartchalerm Isarankura-Na-Ayudhya)

Dean of Faculty of Graduate Studies

Course Registration and Fee Payment for Graduate Students, Academic Year 2025
Faculty of Graduate Studies, Mahidol University

Registration Process		1 st Semester	2 nd Semester	Summer
1	Semester start and end dates	Aug 4 – Dec 15, 2025	Jan 5 – May 11, 2026	Jun 1 – Jul 27, 2026
2	Consultations with advisors for course registration	From Jun 23, 2025	From Nov 24, 2025	From May 4, 2026
3	Registration period via Student Service System on https://graduate.mahidol.ac.th and registration fee payment			
	3.1 Regular registration	Jun 30 – Jul 11, 2025	Dec 1 – Dec 12, 2025	May 11 – May 15, 2026
	3.2 Last day of payment for tuition fees during the regular registration period (If the payment is made after this deadline, the students will be charged 2,000 baht for late registration.)	Aug 1, 2025 (before 10:00 p.m.)	Jan 2, 2026 (before 10:00 p.m.)	May 29, 2026 (before 10:00 p.m.)
	3.3 Late registration (The students will be charged for 2,000 baht)	Aug 4 – Aug 15, 2025	Jan 5 – Jan 16, 2026	Jun 1 – Jun 5, 2026
	3.4 Add/Drop course registration (Tuition fee refund for course dropping excluding student who paid tuition fees in fixed-rate cannot refund)			
	3.5 Submission of credit refund request form for the dropped course(s) (during Add/Drop registration period) Remarks: The refund request must be proceeded within the specified period. All requests submitted after the specified period will not be considered.	Aug 4 – Aug 29, 2025	Jan 5 – Jan 30, 2026	Jun 1 – Jun 19, 2026
	3.6 Last day of payment for tuition fees and fines for late registration (The students will be charged for 2,000 baht)	Aug 29, 2025 (before 10:00 p.m.)	Jan 30, 2026 (before 10:00 p.m.)	Jun 19, 2026 (before 10:00 p.m.)
	3.7 Course withdrawal (No refund)	Aug 16 – Nov 28, 2025	Jan 17 – Apr 24, 2026	Jun 6 – Jul 17, 2026
4	Programs verifies number, list of students registered for each subject and payment status on GRAD-MIS system under "Registration" menu http://10.2.3.7/MISsearch/Page_TH/register_menu.aspx	From Jul 14, 2025	From Dec 15, 2025	From May 18, 2026
5	The Faculty of Graduate Studies submits the list of students who do not register for courses or register without the tuition fee payment for student status suspension.	Sep 29, 2025	Mar 2, 2026	---
6	Course evaluation	Dec 1 – Dec 29, 2025	Apr 27 – May 25, 2026	Jul 13 – Aug 10, 2026
7	Submission of course evaluation summary for the semester to Faculty of Graduate Studies	Within Jan 5, 2026	Within Jun 1, 2026	Within Aug 3, 2026
8	Grade Report announcement on https://graduate.mahidol.ac.th (Student Service System)	From Jan 6, 2026	From Jun 2, 2026	From Aug 4, 2026

Academic Calendar 2025

M.Sc. Neuroscience

Academic Calendar 2025 - Master of Science Program in Neuroscience

		Courses	Coordinator	Jun	July	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May
				Mid Jun - Late July Mon - Fri 09.00 - 12.00											
1st Academic Year	Semester 1	Required Courses	SCID 500 Cell & Molecular Biology	SCMU											
		Prerequisite Courses	MBNS 610 Introductory Neuroscience	Nuanchan	Self-Paced Learning										
		Required Courses	MBNS 600 Neurobiology	Jiraporn		13 Aug - 19 Sep Mon, Wed, Fri 09.00 - 16.00									
		Required Courses	MBNS 605 Neurochemistry	Banthit			22 Sep - 17 Oct Mon, Wed, Fri 09.00 - 15.00								
		Elective courses	MBNS 606 Current Topics in Neuroscience	Banthit		14 Aug - 27 Nov Thu 13.00 - 15.00									
		Elective courses	MBNS 651 Neuroendocrinology	Sukonthar				20 Oct - 14 Nov Mon, Wed, Fri 09.00 - 15.00							
		Elective courses	MBNS 655 Pathogenesis of Neurological Diseases	Vorasith				20 Oct - 14 Nov Mon, Wed, Fri 09.00 - 15.00							
	Semester 2	Required Courses	MBNS 603 Neuropsychopharmacology	Sujira							12 Jan - 9 Feb Mon, Wed, Fri 09.30 - 15.30				
		Required Courses	MBNS 650 Developmental Neuroscience	Nuanchan								12 Feb - 13 Mar Mon, Wed, Fri 09.00 - 15.00			
		Required Courses	MBNS 604 Research Methodology and Techniques in Neuroscience	Sujira									16 Mar - 10 Apr Mon - Fri 09.00 - 16.00		
		Required Courses	MBNS 608 Laboratory Rotation Training in Neuroscience	Banthit									12 Jan - 8 May (To be announced)		
		Elective courses	MBNS 658 Animal Experimentation in Neuroscience	Sukonthar										20 Apr - 8 May Mon - Fri 09.00 - 16.00	
		Elective courses	MBNS 659 Microtechniques in Neuroscience Research	Sujira										20 Apr - 8 May Mon - Fri 09.00 - 16.00	

2nd Academic Year	Semester 1	Required Courses	MBNS 691 Seminar in Neuroscience	Sukonthar				Mid Aug - Early Dec Every Thu (To be announced)							
		Thesis	MBNS 698 Thesis	Thesis Advisor				Proposal examination Research ethic Perform experiments for thesis research	Progress report (GR42)						
	Semester 2	Required Courses	MBNS 695 Seminars in Current Research in Neuroscience	Sujira								Mid Jan - Early May Every Thu (To be announced)			
		Thesis	MBNS 698 Thesis	Thesis Advisor								Perform experiments for thesis research			Progress report (GR42) / Thesis defense

*Students must pass the English proficiency test and complete the soft skills before the Thesis examination

Academic Calendar 2025

Ph.D. Neuroscience Plan 2.1

Academic Calendar 2025 - Doctor of Philosophy Program in Neuroscience - Plan 2.1

1st Academic Year		Courses	Coordinator	Jun	July	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May
		Prerequisite Courses													
Semester 1	Required Courses	MBNS 610 Introductory Neuroscience	Nuanchan		Self-Paced Learning										
	Required Courses	MBNS 753 Clinical Neuroscience	Vorasith			13 Aug - 19 Sep Mon, Wed, Fri 09.00 - 15.00									
	Required Courses	MBNS 755 Advanced Neuroscience	Sukonthar				22 Sep - 17 Oct Mon, Wed, Fri 09.00 - 16.00								
	Required Courses	MBNS 790 Doctoral Seminars in Neuroscience	Nuanchan			14 Aug - 27 Nov Every Thu (To be announced)									
	Elective courses	MBNS 754 Selected Topics in Contemporary Neuroscience	Banthit			14 Aug - 27 Nov Tue 09.00 - 16.00									
	Elective courses	MBNS 756 Behavioral and Cognitive Neuroscience	Vorasith					20 Oct - 14 Nov Mon, Wed, Fri 09.00 - 15.00							
	Elective courses	MBNS 757 Drug Development for Neurological Diseases	Jiraporn					20 Oct - 14 Nov Mon, Wed, Fri 09.00 - 15.00							
	Required Courses	MBNS 794 Doctoral Seminars in Integrated Neuroscience	Nuanchan								15 Jan - 30 April Every Thu (To be announced)				
	Elective courses	MBNS 751 Research Methods in Cellular and Molecular Neuroscience	Sujira											20 Apr - 8 May Mon - Fri 09.00 - 16.00	
	Elective courses	MBNS 752 Research Methods in Cognitive Neuroscience	Vorasith											20 Apr - 8 May Mon - Fri 09.00 - 16.00	
Semester 2		Qualifying examination	Program Director								Qualifying Examination				
	Dissertation	MBNS 699 Dissertation	Dissertation Advisor								Proposal examination Research ethic Perform experiments for dissertation				Progress report (GR42)

2nd Academic Year	Semester 1	Dissertation	MBNS699 Dissertation Progress report	Dissertation Advisor			Perform experiments for dissertation				Progress report (GR42)					
	Semester 2	Dissertation	MBNS699 Dissertation Progress report	Dissertation Advisor								Perform experiments for dissertation				Progress report (GR42)
3rd Academic Year	Semester 1	Dissertation	MBNS699 Dissertation Progress report	Dissertation Advisor			Perform experiments for dissertation				Progress report (GR42)					
	Semester 2	Dissertation	MBNS699 Dissertation Progress report	Dissertation Advisor								Perform experiments for dissertation				Dissertation Examination

*Students must pass the English proficiency test and complete the soft skills before the Thesis examination



Ph.D. Neuroscience Plan 2.2

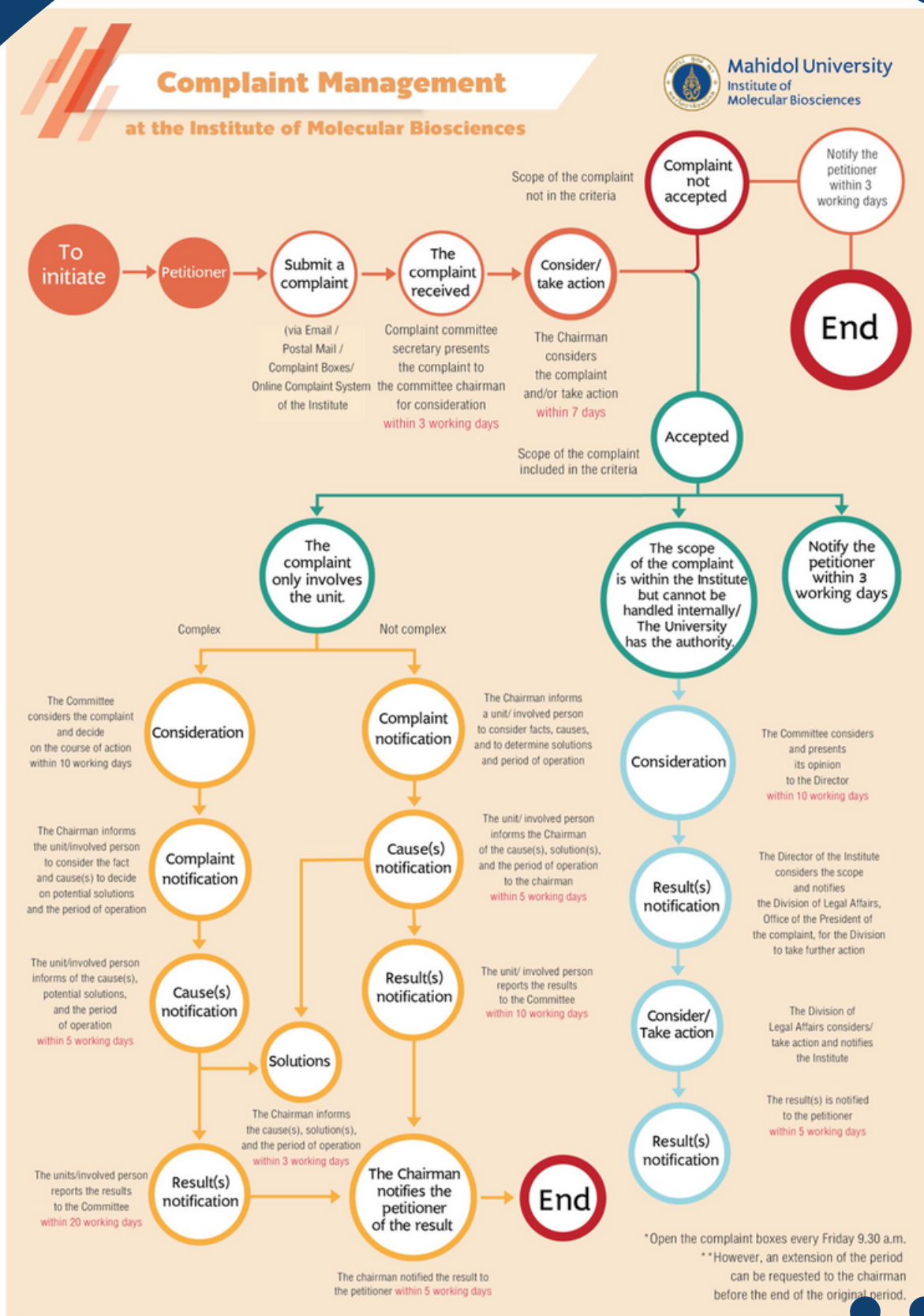
Academic Calendar 2025 - Doctor of Philosophy Program in Neuroscience - Plan 2.2

1st Academic Year		Courses	Coordinator	Jun	July	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May
		Prerequisite Course													
Semester 1	Required Courses	MBNS 610 Introductory Neuroscience	Nuanchan		Self-Paced Learning										
	Required Courses	MBNS 600 Neurobiology	Jiraporn			13 Aug - 19 Sep Mon, Wed, Fri 09.00 - 16.00									
	Required Courses	MBNS 605 Neurochemistry	Banthit				22 Sep - 17 Oct Mon, Wed, Fri 09.00 - 15.00								
	Elective courses	MBNS 606 Current Topics in Neuroscience	Banthit			14 Aug - 27 Nov Thu 13.00 - 15.00									
	Elective courses	MBNS 651 Neuroendocrinology	Sukonthar					20 Oct - 14 Nov Mon, Wed, Fri 09.00 - 15.00							
	Elective courses	MBNS 655 Pathogenesis of Neurological Diseases	Vorasith					20 Oct - 14 Nov Mon, Wed, Fri 09.00 - 15.00							
	Elective courses	MBNS 754 Selected Topics in Contemporary Neuroscience	Banthit			19 Aug - 25 Nov Tue 09.00 - 16.00									
	Elective courses	MBNS 756 Behavioral and Cognitive Neuroscience	Vorasith					20 Oct - 14 Nov Mon, Wed, Fri 09.00 - 15.00							
	Elective courses	MBNS 757 Drug Development for Neurological Diseases	Jiraporn					20 Oct - 14 Nov Mon, Wed, Fri 09.00 - 15.00							
Semester 2	Required Courses	MBNS 603 Neuropsychopharmacology	Sujira								12 Jan - 9 Feb Mon, Wed, Fri 09.30 - 15.30				
	Required Courses	MBNS 650 Developmental Neuroscience	Nuanchan								12 Feb - 13 Mar Mon, Wed, Fri 09.00 - 15.00				
	Required Courses	MBNS 604 Research Methodology and Techniques in Neuroscience	Sujira									16 Mar - 10 Apr Mon - Fri 09.00 - 16.00			
	Elective courses	MBNS 751 Research Methods in Cellular and Molecular Neuroscience	Sujira										20 Apr - 8 May Mon - Fri 09.00 - 16.00		
	Elective courses	MBNS 752 Research Methods in Cognitive Neuroscience	Vorasith										20 Apr - 8 May Mon - Fri 09.00 - 16.00		

2nd Academic Year	Semester 1	Required Courses	MBNS 753 Clinical Neuroscience	Vorasith			Mid Aug - Mid Sep Mon, Wed, Fri 09.00 - 15.00								
		Required Courses	MBNS 755 Advanced Neuroscience	Sukonthar			Late Sep - Late Oct Mon, Wed, Fri 09.00 - 16.00								
		Required Courses	MBNS 790 Doctoral Seminars in Neuroscience	Nuanchan			Mid Aug - Early Dec Every Thu (To be announced)								
			Qualifying examination	Program Director			Qualifying Examination								
3rd Academic Year	Semester 2	Required Courses	MBNS 794 Doctoral Seminars in Integrated Neuroscience	Nuanchan							Mid Jan - Early May Every Thu (To be announced)				
		Dissertation	MBNS799 Dissertation Progress report	Dissertation Advisor							Proposal examination Research ethic Perform experiments for dissertation			Progress report (GR42)	
4th Academic Year	Semester 1	Dissertation	MBNS799 Dissertation Progress report	Dissertation Advisor			Perform experiments for dissertation			Progress report (GR42)					
		Dissertation	MBNS799 Dissertation Progress report	Dissertation Advisor							Perform experiments for thesis research			Progress report (GR42)	
4th Academic Year	Semester 2	Dissertation	MBNS799 Dissertation Progress report	Dissertation Advisor			Perform experiments for dissertation			Dissertation Examination					
		Dissertation	MBNS799 Dissertation Progress report	Dissertation Advisor							Perform experiments for dissertation research			Dissertation Examination	

*Students must pass the English proficiency test and complete the soft skills before the Thesis examination

Complaints and Appeals Process





SUGGESTION AND COMPLAINTS

COMPLAINT FORM CAN BE ACCESSED
BY SCANNING THIS QR CODE.



STUDENT COMPLAINTS FORM

PLEASE SUBMIT THE COMPLETED FORM IN THE BOX LOCATED
EITHER IN THE MB LIBRARY OR INSIDE THE ELEVATOR.



THE SUGGESTION AND COMPLAINT
BOX ON THE 3RD FLOOR INSIDE THE
MB LIBRARY

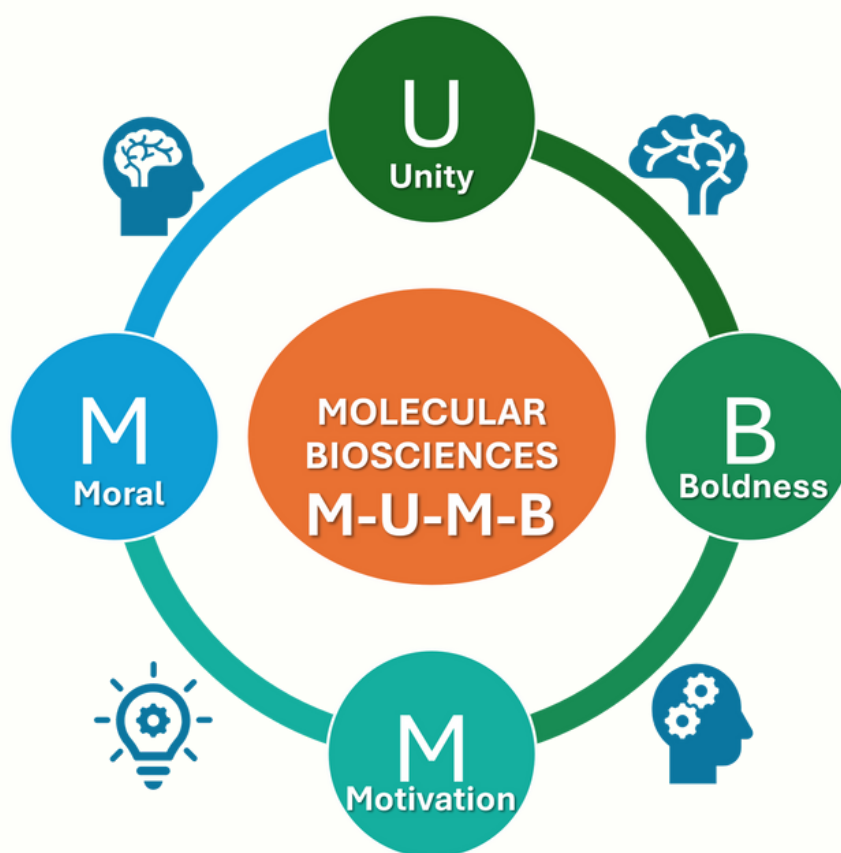
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and help us grow together!"

Institute of Molecular Biosciences

Core Values



*Exploring the Brain,
Empowering the Mind*
NEUROSCIENCE



NEUROSCIENCE MU



Institute of Molecular Biosciences
Mahidol University, Salaya Campus,
Phutthamonthon, Nakhon Pathom 73170
Tel. 02-441-9003-7