Master of Science Programme in Biopharmaceutical Science (International Programme) หลักสูตร วิทยาศาสตรมหาบัณฑิต สาขาวิชา เภสัชศาสตร์ชีวภาพ (หลักสูตรนานาชาติ)(ภาคปกติ)

Faculty of Pharmacy

คณะเภสัชศาสตร์

1. Microbiology (วิชาเอกจุลชีววิทยา)

Admission No.

2 6 1 3 M G 0 5

Expected number of students to be accepted year round: 6 Students

2. Biochemistry (วิชาเอกชีวเคมี)

Admission No.

2 6 1 3 M G 0 6

Expected number of students to be accepted year round: 5 Students

3. Physiology (วิชาเอกสรีรวิทยา)

Admission No.

2 6 1 3 M G 0 8

Expected number of students to be accepted year round: 4 Students

Admission Requirements

A candidate must:

- 1. Graduate / Fourth year student in Biology, Biomedical Sciences, Health Sciences and related areas
- 2. Have a minimum grade point average of 2.50;
- 3. pass the standard graduate entry requirement for a Master's in Science;
- 4. Have a TOEFL score of at least 480, TOEFL computer-based score of 157, TOEFL Internet-based score of 54, or IELTS score of 4.5 or pass the English Proficiency Examination arranged by the Faculty of Graduate Studies.

Those who do not have any of the test scores specified above will have to take the English Proficiency Examination of the Faculty of Graduate Studies on the specified examination day.

Exemptions from the above conditions may be granted by the Doctoral Program Committee and the Dean of the Faculty of Graduate Studies.

Written Examination (Microbiology)

(Applicants must attend the examination date accurately to your admission round.)

Third Round			
May 31, 2014			
Subjects for examination	Time		
1. English	8.30 - 11.30 a.m.		
2. General Knowledge	11.30 - 12.30 p.m.		
3. Microbiology	1.30 - 2.30 p.m.		

Examination Place

Mahidol University , Salaya , Nakhonpathom more details : www.grad.mahidol.ac.th or Announcement at Faculty of Graduate Studies branches.

Written Examination (Biochemistry)

(Applicants must attend the examination date accurately to your admission round.)

Third Round May 31, 2014		
Subjects for examination	Time	
1. English	8.30 - 11.30 a.m.	
2. General Knowledge	11.30 - 12.30 p.m.	
3. Biochemistry of Pharmacy	1.30 - 4.30 p.m.	

Examination Place

Mahidol University, Salaya, Nakhonpathom more details: www.grad.mahidol.ac.th or Announcement at Faculty of Graduate Studies branches.

Written Examination (Physiology)

(Applicants must attend the examination date accurately to your admission round.)

Third Round May 31, 2014			
Subjects for examination	Time		
1. English	8.30 - 11.30 a.m.		
2. General Knowledge	11.30 - 12.30 p.m.		
3. Physiology	1.30 - 2.30 p.m.		
Firemination Place			

Examination Place

Mahidol University , Salaya , Nakhonpathom more details : www.grad.mahidol.ac.th or Announcement at Faculty of Graduate Studies branches.

Curriculum Structure

	Credit
Core Courses	10
Required Courses	8
Elective Courses	6
Thesis	12

			Credit
Core C	ourses		
GRID	603	Biostatistics	3(3-0-6)
SCID	500	Cell and Molecular Biology	3(3-0-6)
PYID	668	Seminar in Biopharmaceutical Sciences	1(1-0-2)
PYID	669	Special Topics in Biopharmaceutical Sciences	1(1-0-2)
PYID	685	Research Methodology in Pharmacy I	2(2-0-4)
Require	ed Cour	ses	
Microbi	iology		
PYMI	690	Pharmaceutical Microbiology I	3(2-3-5)
PYMI	691	Pharmaceutical Microbiology II	3(2-3-5)
PYMI	693	Screening for Bioactivities	2(1-3-3)
Bioche	mistry		
PYBC	667	Current Topics in Biochemistry	2(2-0-4)
PYBC	668	Instrumental Research Techniques	3(2-3-5)
PYBC	669	Biopharmaceutical Biochemistry	3(3-0-6)
Physiol	logy		
PYPS	672	Cell Physiology	2(2-0-4)
PYPS	682	Human Physiological Regulation	3(3-0-6)
PYPS	683	Systematic Human Physiology	3(3-0-6)
Elective	e Cours	es	
Microbi	iology		
PYMI	664	Industrial Pharmaceutical Microbiology	3(2-3-5)
PYMI	665	Quality Assessment and Microbiological Control	3(2-3-5)
PYMI	694	Biomolecular Techniques for Biopharmaceutical Sciences	3(2-3-5)
PYMI	695	Basic Techniques in Animal Cell Culture	2(1-3-3)
Biochemistry			
PYBC	670	Human Metabolism	3(3-0-6)
PYBC	671	Biochemical Techniques for Drug Research and Development	2(0-6-2)
PYBC	672	Biochemical Technology Laboratory	2(0-6-2)
PYBC	673	Principle of Biomolecular Analysis	3(3-0-6)
Physiol	Physiology		
PYPS	671	Membrane Transport	3(2-2-5)
PYPS	673	Current Topics in Pathophysiology	3(3-0-6)
PYPS	693	Aging and Anti-aging	3(3-0-6)

PYPS 695	Advanced Renal Physiology	3(3-0-6)
PYPS 696	Advanced Cardiovascular Physiology	3(3-0-6)
PYPS 697	Advanced Endocrine Physiology	3(3-0-6)
Thesis		
PYID 698 T	hesis	12(0-36-0)
* These may change in cases where there are suggestions for the improvement of the curriculum		

Additional information for applicants

The course will start in Semester 2, Academic Year 2013 on 4 November 2013. (For more information please contact 02-345-3747)

Additional advantages of the program

Major: Microbiology

Research focuses on medical microbiology, microbial genetics and biotechnology, targeted therapy and immunomodulation, development of immunological diagnostic assays for food and health safety, antimicrobial resistant mechanisms, development of novel natural and synthetic antimicrobial compounds using antisense technology, molecular modeling of biomolecule in drug discovery, *in silico* simulations of biopolymer as drug delivery system and molecular virology.

Major: Biochemistry

Research focuses on pharmaceutical biochemistry, biopharmaceuticals, cancer biochemistry, biosensors, antiviral drugs, metagenomics and microbial diversity for drug discovery, bacterial systematics, discovery of thermostable enzymes from thermophiles, pharmaceutical uses of biodegradable plastics, antioxidants from medicinal plants, peptide and protein for pharmaceutical applications.

Major: Physiology

Research emphasizes on activities of medicinal plants in pathophysiological animal models.

Details of Scholarships

- 1. Scholarship of the 60th Year of the Supreme Reign of His Majesty King Bhumibol Adulyadej.
- 2. Research Assistance

Application Process

Application is only available via online application at www.grad.mahidol.ac.th

Required Documents

Prepare the following required documents to submit via online admission system or post:

- Two (2) recent photographs (1x1 inch in size)
- A copy of an applicant's degree certificate or a letter of graduation certification (for an applicant with a degree completion)
 A letter certifying that an applicant is currently in the last semester prior to graduation (for an applicant seeking for a degree)
 A detailed transcript of a degree (for an applicant with a degree completion)
 A grade report with course names and grades received from the first to the current semester prior to graduation
 A copy of identification card

2 copies

- A copy of proof of payment.

Submitting documents via online admission system.

A copy of house registration certification

- All documents must be in pdf format (maximum size 2 MB)
- Recent photograph must be in <u>ipeg format</u> only (maximum size 2 MB)

Job option after graduation (for all)

- Technical staff in government / private organization
- Researcher

Further information may be obtained from the Director of Graduate Studies,

Major: Microbiology;

1. Assoc.Prof.Chanpen Wiwat (E-mail: chanpen.wiw@mahidol.ac.th)

Ratcharatana Building, Floor 2,

Department of Microbiology, Faculty of Pharmacy.

Tel: 0 2644 8692 Fax: 0 2644 8692

Major: Biochemistry

- 1. Dr.Jiraphun Jittikoon (E-mail: jiraphun.jit@mahidol.ac.th)
- 2. Dr. Montri Yasawong (E-mail: montri.yas@mahidol.ac.th)

Rajaratana Building, Floor 7,

Department of Biochemistry, Faculty of Pharmacy,

Tel: 0 2644 8677-91 Ext; 5732 Fax: 0 2644 8693

Program Coordinator

1. Mrs. Pajaree Pattapong (E-mail: pajaree.pat@mahidol.ac.th)

Ratcharatana Building, Floor 7,

Department of Biochemistry, Faculty of Pharmacy.

Tel: 0 2644 8682 Ext; 5732 Fax: 0 2644 8693

Major: Physiology;

1. Assoc. Prof. Dr. Wisuda Suvitayawat (E-mail: visuda.suv@mahidol.ac.th)

Room 607, Rajaratana Building, Floor 6,

Department of Physiology, Faculty of Pharmacy,

Tel: 0 2644 8678-91 Ext; 5602 Fax: 0 2644 8703

2. Assoc. Prof. Dr. Penchom Peungvicha (E-mail: penchom.peu@mahidol.ac.th)

Room 607, Rajaratana Building, Floor 6,

Department of Physiology, Faculty of Pharmacy,

Tel: 0 2644 8678-91 Ext; 5602, 5607 Fax: 0 2644 8703

Note 1. For more education information: www.grad.mahidol.ac.th

For more information please contact The Student Admission Section.

Tel . 0 2441 4125 ext. 208-210, 0 2441 9129, E-mail: gradthai@mahidol.ac.th