Admission Number

2 6 1 3 D G 0 0

Doctor of Philosophy Programme in Biopharmaceutical Sciences (International Programme) Faculty of Pharmacy

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

Programme provided 4 majors

- 1. Microbiology
- 2. Biochemistry
- 3. Pharmacology
- 4. Physiology

# Admission Requirements

A candidate must:

- 1. graduated and Fourth year student (final year) in Biology, Biomedical Sciences , Health Sciences and related areas.
- 2. have a minimum grade point average of 3.5
- 3. meet the admission requirements of the Faculty of Graduate Studies;
- 4. has to submit an abstract of 1-3 pages concerning the performed research or the proposed research topic 2 days before the interview (e-mail : surunchana.kae@mahidol.ac.th). The interview will start with a 40- minute power point presentation by an applicant.
- have a TOEFL score of at least 500, TOEFL computer-based score of 173, TOEFL Internetbased score of 61, or IELTS score of 5.
  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.
- In case your qualification does not match to the admission criteria, candidates must prior attach A Requesting Form for Examination" approved by the program director. The form must be submitted before making the application. Kindly download here: http://www.grad.mahidol.ac.th/grad/admission/form\_th.php

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

<u>First Round</u> January 17, 2015		<u>Second Round</u> May 16, 2015	
Subjects for examination	Time	Subjects for examination	Time
1. English	8.30 - 11.30 a.m.	1. English	8.30 - 11.30 a.m.
2. General Knowledge	11.30 - 12.30 p.m.	2. General Knowledge	11.30 - 12.30 p.m.

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

#### **Examination Place**

 $\label{eq:main_stability} Mahidol \ \ University \ , \ Salaya \ , \ Nakhon pathom \ \ more \ \ details \ : \ www.grad.mahidol.ac.th \ or \ Announcement$ 

at Faculty of Graduate Studies branches.

# Curriculum Structure

	Credit
For students with Master's degree	
Core Courses	3
Required Courses (vary by major)	6
Elective Courses no less than	3
Thesis	36
For students with Bachelor's degree	
Core Courses	12
Required Courses (vary by major)	6
Elective Courses no less than	6
Thesis	48

			Credit	
Core Courses and Required Courses For students with Master's degree Core Courses				
PYID	667	Integrative Seminar in Biopharmaceutical Sciences	1(1-0-2)	
PYID	679	Current Topics in Biopharmaceutical Sciences	2(2-0-4)	
Require	ed Cour	ses (vary by major) students must enroll for only 1 major		
Microbi	iology			
PYMI	684	Applied Microbiology in Pharmacy	3(2-3-5)	
PYMI	686	Pharmaceutical Biological Products	3(3-0-6)	
Bioche	mistry			
PYBC	674	Advanced Biopharmaceutical Biochemistry	3(3-0-6)	
PYBC	675	Biochemical Knowledge of Chemical and Biological Warfare	3(3-0-6)	
Pharma	acology			
PYPM	684	Special Topics in Pharmacology	3(3-0-6)	
PYPM	685	Advanced Pharmacology	3(3-0-6)	
Physio	logy			
PYPS	691	Physiological Control System	3(3-0-6)	
PYPS	692	Special Topics in Physiology	3(3-0-6)	
Core Courses and Required Courses For students with Bachelor's degree Core Courses				
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 I	1(1-0-2)	
PYID	679	Current Topics in Biopharmaceutical Sciences	2(2-0-4)	
PYID	685	Research Methodology in Pharmacy I	2(2-0-4)	

Require	ed Cou	rses (vary by major) students must enroll for only 1 major	
Microb			
PYMI	684	Applied Microbiology in Pharmacy	3(2-3-5)
PYMI	686	Pharmaceutical Biological Products	3(3-0-6)
Bioche			
PYBC	-	Instrumental Research Techniques	3(2-3-5)
PYBC	669	Biopharmaceutical Biochemistry	3(3-0-6)
Pharma	acology		
PYPM	684	Special Topics in Pharmacology	3(3-0-6)
PYPM	685	Advanced Pharmacology	3(3-0-6)
Physio	logy		
PYPS	691	Physiological Control System	3(3-0-6)
PYPS	692	Special Topics in Physiology	3(3-0-6)
Electiv	e Cours	202	
Microb			
	•••	istrial Pharmaceutical Microbiology	3(2-3-5)
		lity Assessment and Microbiological Control	3(2-3-5)
		nolecular Techniques for Biopharmaceutical Sciences	3(2-3-5)
		ic Techniques in Animal Cell Culture	2(1-3-3)
Bioche			_(,)
PYBC 667 Current Topics in Biochemistry		3(3-0-6)	
		nan Metabolism	3(3-0-6)
PYBC	671 Bio	chemical Techniques for Drug Research and Development	4(4-0-8)
PYBC	672 Bio	chemical Technology Laboratory	2(0-6-2)
PYBC 673 Principle of Biomolecular Analysis3(3-0-6)			3(3-0-6)
Pharma	acology	,	
PYPM	664 Es	sentials in Toxicology	3(2-3-5)
PYPM	666 Dru	ug Screening Techniques I	3(2-3-5)
PYPM	678 Ad	verse Drug Actions	3(3-0-6)
Physio	logy		
PYPS ( 2-5)	671 Me	mbrane Transport	3(2-
PYPS	672 Cel	l Physiology	2(2-0-4)
PYPS	673 Cur	rent Topics in Pathophysiology	3(3-0-6)
PYPS	674 Hur	nan Physiological Regulation	3(3-0-6)
PYPS	675 Sys	tematic Human Physiology	3(3-0-6)
PYPS ( 0-6)	693 Agi	ng and Anti-aging	3(3-
PYPS	695 Adv	vanced Physiology in Renal System	3(3-0-6)
PYPS 696 Advanced Physiology in Cardiovascular System3(3-0-6)			3(3-0-6)
PYPS	697 Adv	vanced Physiology in Endocrine System	3(3-0-6)

Thesis		
PYID 699 Dissertation	36(0-108-0)	
PYID 799 Dissertation	48(0-144-0)	
* These may change in cases where there are suggestions for the improvement of the curriculum		

#### Additional advantages of the programme

Pharmaceutical - related biological sciences and Health Sciences.

# **Details of Scholarships**

- 1. Scholarship of the 60<sup>th</sup> Year of the Supreme Reign of His Majesty King Bhumibol Adulyadej.
- 2. Royal Golden Jubilee PH.D. Program

# 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)
- 2. Oral presentation for interested research proposal
- 3. Should be submitted research proposal 1 week before oral presentation (4 pages)

#### **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 :

- Research topic, Objective, research plan, Expected outcome, approximately 4 pages.
- 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)	2 copies
-	A letter certifying that an applicant is currently in the final year prior to graduation (for an applicant seeking for a degree)	2 copies
-	A detailed transcript of a degree (for an applicant with a degree completion)	2 copies
-	A grade report with course names and grades received from the first to the current semester prior to graduation	2 copies
-	A copy of identification card	2 copies
-	A copy of house registration certification	2 copies
-	A copy of Certificate of English score: TOEFL/IELTS/MU-Test (if any). See detail here: http://www.grad.mahidol.ac.th/grad/academicinfo/engstandard2553_th.php Those who early submit a valid English score prior to the examination will be exempt	2 copies

from English test on the examination date.

- A copy of proof of payment.

Submitting documents via online admission system.

- All documents must be in pdf format (maximum size 2 MB)
- Recent photograph must be in jpeg format only (maximum size 2 MB)

# Job option after graduation

- 1. Biopharmaceutical scholars
- 2. Research and development of biological product
- 3. Biopharmaceutical technology and innovation
- 4. Biopharmaceutical professionals

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

1. Assoc. Prof. Dr. Primchanien Moongkarndi(E-mail : Primchanien.moon@mahidol.ac.th)Racharat Building, Floor 2, Department of Microbiology, Faculty of Pharmacy,Tel: 0 2644 8692Fax: 0 2644 8692

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