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 (last semester) 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.
- 5. 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.

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

Third Round
May 31, 2014Subjects for examinationTime1. English8.30 - 11.30 a.m.2. General Knowledge11.30 - 12.30 p.m.

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

Examination Place

Mahidol University, Salaya, Nakhonpathom 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
		and Required Courses	
	udents w Courses	vith Master's degree	
PYID	667	Integrative Seminar in Biopharmaceutical Sciences	1(1-0-2)
PYID	679	Current Topics in Biopharmaceutical Sciences	2(2-0-4)
Requir	ed Cour	rses (vary by major) students must enroll for only 1 major	
Microb	oiology		
PYMI	684	Applied Microbiology in Pharmacy	3(2-3-5)
PYMI	686	Pharmaceutical Biological Products	3(3-0-6)
Bioche	emistry		
PYBC	674	Advanced Biopharmaceutical Biochemistry	3(3-0-6)
PYBC	675	Biochemical Knowledge of Chemical and Biological Warfare	3(3-0-6)
Pharm	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)
For stu		and Required Courses vith Bachelor's degree	
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)

Requir	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)
	acology		
PYPM		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		
Microb			
		ustrial 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			2(1-5-5)
	•	rrent Topics in Biochemistry	3(3-0-6)
		man Metabolism	3(3-0-6)
		chemical Techniques for Drug Research and Development	4(4-0-8)
		chemical Technology Laboratory	2(0-6-2)
		nciple of Biomolecular Analysis	3(3-0-6)
Pharmacology			
		sentials in Toxicology	3(2-3-5)
		ug Screening Techniques I	3(2-3-5)
		verse Drug Actions	3(3-0-6)
Physio		C C C C C C C C C C C C C C C C C C C	
PYPS 2-5)	671 Me	mbrane Transport	3(2-
PYPS	672 Cel	l Physiology	2(2-0-4)
PYPS	673 Cu	rrent Topics in Pathophysiology	3(3-0-6)
PYPS	674 Hui	man Physiological Regulation	3(3-0-6)
PYPS	675 Sys	stematic 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 Adv	vanced Physiology in Cardiovascular System	3(3-0-6)
PYPS	697 Adv	anced 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 60th 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	2 copies
	(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)	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 proof of payment.

Submitting documents via online admission system.

- All documents must be in <u>pdf format</u> (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. Chanpen Wiwat(E-mail : chanpen.wiw@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