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**Master of Science in Pharmacy Programme in Pharmacology and Biomolecular Science  
(International Programme)**

หลักสูตร เกษัชศาสตรมหาบัณฑิต สาขาวิชา เกษัชวิทยาและวิทยาศาสตร์ชีวโมเลกุล(หลักสูตรนานาชาติ) (ภาคปกติ)

**Faculty of Pharmacy**

คณะเภสัชศาสตร์

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

The program offers 2 concentrations:

1. Pharmacology
2. Biomolecular Science

**Admission Requirements**

**candidates must :**

1. hold a Bachelor's degree in Pharmacy and meet the requirements set by the Faculty of Graduate Studies;
2. have a minimum grade point average of 2.50 ;
3. Good command in English (reading, writing and speaking)
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.

5. 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](http://www.grad.mahidol.ac.th/grad/admission/form_th.php)
6. For Clinical Pharmacy course, candidate must obtain Pharmacy Council of Thailand or other Pharmacy License that the Programme Committee considers as equivalent;

Exemption from the above conditions may be granted by the Program Committee under exceptional circumstances.

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

<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.
3. Pharmacology and Basic Biomolecular Sciences	1.30 - 4.30 p.m.	3. Pharmacology and Basic Biomolecular Sciences	1.30 - 4.30 p.m.
<p><b>Examination Place</b> Mahidol University , Salaya , Nakhonpathom more details : <a href="http://www.grad.mahidol.ac.th">www.grad.mahidol.ac.th</a> or Announcement at Faculty of Graduate Studies branches.</p>			

## Curriculum Structure

	<b>Credit</b>
Core Courses	7
Required Courses	12
Elective Courses	6
Thesis	12

	<b>Credit</b>
<b>Core Courses</b>	
GRID 603 Biostatistics	3(3-0-6)
PYPM 685 Seminar in Pharmacology and Biomolecular Science I	1(1-0-2)
PYPM 686 Seminar in Pharmacology and Biomolecular Science II	1(1-0-2)
PYID 685 Research Methodology in Pharmacy I	2(2-0-4)
<b>Required Courses</b>	
SCID 500 Cell and Molecular Biology	3(3-0-6)
PYID 696 Molecular Pharmacology and Biomolecular Science	3(3-0-6)
<b>And take at least 6 credits of Required Courses in student's major field</b>	
<b>Major in Biomolecular Science</b>	
PYBC 662 Drug Metabolism and Detoxification	3(3-0-6)
PYBC 670 Human Metabolism	3(3-0-6)
<b>Major in Pharmacology</b>	
PYPM 663 Principle of Drug Therapy	3(3-0-6)
PYPM 687 Advanced Pharmacology	3(3-0-6)
<b>Elective Courses</b>	
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)
PYBC 671 Biochemical Techniques for Drug Research and Development	4(4-0-8)
PYBC 672 Biochemical Technology Laboratory	2(0-6-2)
PYPM 664 Essentials in Toxicology	3(2-3-5)
PYPM 666 Drug Screening Techniques I	3(2-3-5)
PYPM 676 Receptor Pharmacology	3(3-0-6)
PYPM 678 Adverse Drug Reaction	3(3-0-6)

## Thesis

PYID 698 Thesis

12(0-36-0)

\* These may change in cases where there are suggestions for the improvement of the curriculum

### Areas of study that a student may select for concentration: (New)

#### 1. Biomolecular Science

- (1) Structural and Function Studies of Bioactive Protein and Peptides
- (2) Application of Engineering Technology in Biopharmaceutical Sciences
- (3) Stem Cell Biology
- (4) Cancer Cell Biology

#### 2. Pharmacology

- (1) Receptor Pharmacology
- (2) Cardiovascular Pharmacology
- (3) Neuropsychopharmacology
- (4) Pain Management and Pain Signaling Pathway
- (5) Receptor Endocytosis and Signaling Pathway
- (6) Role of COX in Female Reproductive System
- (7) Female Reproductive Pharmacology
- (8) Gastrointestinal Pharmacology
- (9) Pharmacological Effects of Herbal Plants
- (10) Drug-drug Interaction
- (11) Evidence-based Pharmacotherapy
- (12) Biochemical Pharmacology
- (13) Hepatotoxicity of Drugs
- (14) Antioxidant Activities in Natural Products
- (15) Binding of Phytoestrogen to Estrogen Receptor

### Details of Scholarships

1. Scholarship of the 60<sup>th</sup> Year of the Supreme Reign of His Majesty King Bhumibol Adulyadej.
2. RGJ.

### Application Process

Application is only available via online application at [www.grad.mahidol.ac.th](http://www.grad.mahidol.ac.th)

### Required Documents

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

- Four (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 final year prior to graduation 2 copies  
(for an applicant seeking for a degree)
- 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 2 copies  
semester prior to graduation
- A copy of identification card 2 copies
- A copy of house registration certification 2 copies
- A copy of a medical license 2 copies
- A copy of a work experience certifying letter 2 copies
- A copy of Certificate of English score: TOEFL/IELTS/MU-Test (if any). See detail here: 2 copies  
[http://www.grad.mahidol.ac.th/grad/academicinfo/engstandard2553\\_th.php](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 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. Researcher , academic staff of government and private
2. Pharmacists working in hospitals, drugstores,
3. Pharmacist in drug industry , food and nutrition industry Cosmetic industry and other related industry

**Further information may be obtained from the Director of Graduate Studies,  
Pharmacology and Biomolecular Science**

1. **Assoc. Prof. Dr. Srichan Phornchirasilp (E-mail : [srichan.pho@mahidol.ac.th](mailto:srichan.pho@mahidol.ac.th))**  
Room 614, Rajaratana Building, Floor 6,  
Department of Pharmacology, Faculty of Pharmacy.  
Tel: 0 2644 8677-91 Ext. 5630 Fax: 0 2644 8700

**Notes** 1. For more education information : [www.grad.mahidol.ac.th](http://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](mailto:gradthai@mahidol.ac.th)**