

Admission number

2	1	0	8	D	G	0	0
---	---	---	---	---	---	---	---

Doctor of Philosophy Programme in Pharmacology (International Programme)

Faculty of Science

Department of Pharmacology

Admission Requirements

A candidate must:

1. **A candidate in Ph.D. Program plan 1.1 must**

Hold a Master degree in pharmacology or related fields or a degree of Doctor of Medicine, Doctor of Dental Surgery, Doctor of Pharmacy, Doctor of Veterinary Medicine or those who study in the final year of Master Program in Pharmacology and related fields approved by the Program committee, with the GPA not less than 3.50 or equivalent or candidates who have working experience in Pharmacological research and related fields for at least 2 years.

2. **A candidate in Ph.D. Program plan 2.1 must**

Hold a Master degree in pharmacology or related field or a degree of Doctor of Medicine, Doctor of Dental Surgery, Doctor of Pharmacy, Doctor of Veterinary Medicine with GPA not less than 3.50

3. **A candidate in Ph.D. Program plan 2.2 must**

Hold a bachelor degree or equivalent or those who study in the final year of Bachelor degree in science such as Chemistry, Biochemistry, Biology, Biotechnology, Nurse, Medical Technology and Public Health or related biological science with GPA not less than 3.50

4. Have a TOEFL ITP score of at least 500, TOEFL Internet-based score of 61 or IELTS score of 5.

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

Curriculum Structure

	Credit
Plan 1.1	
For students holding Master degree, Medical doctor, dentist, pharmacist or veterinarian	
Thesis	48
Plan 2.1	
For students holding Master degree	
Required Courses	6
Elective Courses not less than	6
Thesis	36
Plan 2.2	
For students holding Bachelor degree	
Required Courses	18
Elective Courses not less than	6
Thesis	48

	Credit
Plan 1.1	
For students holding Master degree	
Thesis	
SCPM 898 Dissertation	48(0-192-0)
Plan 2.1	
For students holding Master degree	
Required Courses	
SCPM 612 Advanced Research in Pharmacology	3(3-0-6)
SCPM 614 PhD Research Rotation in Pharmacology	1(0-2-1)
SCPM 682 PhD Seminar in Pharmacology	2(2-0-4)
Elective Courses	
SCID 500 Cell and Molecular Biology	3(3-0-6)
SCID 507 Microscopic Technique	1(0-2-1)
SCID 508 Biomolecular and Spectroscopy Technique	1(0-2-1)
SCID 509 Separation Techniques	1(0-2-1)
SCID 510 Immunological Methods	1(0-2-1)
SCID 511 Gene Technology	1(0-2-1)
SCID 512 Receptor Binding and Enzyme Kinetic Assays	1(0-2-1)
SCID 513 Animal Cell Culture Techniques	1(0-2-1)
SCID 514 Animal Experimentation in Biomedical Research	1(0-2-1)
SCID 516 Biostatistics	3(3-0-6)
SCID 518 Generic Skills in Science Research	1(1-0-2)
SCPM 509 Immunopharmacology	1(1-0-2)
SCPM 510 Pharmacogenomics	1(1-0-2)
SCPM 601 Clinical Concepts in Pharmacology	2(2-0-4)
Thesis	
SCPM 699 Dissertation	36(0-144-0)
Plan 2.2	
For students holding Bachelor degree	
Required Courses	
SCPM 501 Experimental Methods in Pharmacology	1(0-2-1)
SCPM 502 Principles of Drug Action	2(2-0-4)
SCPM 507 Modern Pharmacology	3(3-0-6)
SCPM 508 Special Topics in Pharmacology	2(2-0-4)
SCPM 511 Molecular and Cellular Science in Pharmacology	2(2-0-4)
SCPM 512 System Biological Basis for Pharmacology	2(2-0-4)
SCPM 612 Advanced Research in Pharmacology	3(3-0-6)
SCPM 614 PhD Research Rotation in Pharmacology	1(0-2-1)
SCPM 682 PhD Seminar in Pharmacology	2(2-0-4)

Elective Courses

SCID 500	Cell and Molecular Biology	3(3-0-6)
SCID 507	Microscopic Technique	1(0-2-1)
SCID 508	Biomolecular and Spectroscopy Techniques	1(0-2-1)
SCID 509	Separation Techniques	1(0-2-1)
SCID 510	Immunological Methods	1(0-2-1)
SCID 511	Gene Technology	1(0-2-1)
SCID 512	Receptor Binding and Enzyme Kinetic Assays	1(0-2-1)
SCID 513	Animal Cell Culture Techniques	1(0-2-1)
SCID 514	Animal Experimentation in Biomedical Research	1(0-2-1)
SCID 516	Biostatistics	3(3-0-6)
SCID 518	Generic Skills in Science Research	1(1-0-2)
SCPM 509	Immunopharmacology	1(1-0-2)
SCPM 510	Pharmacogenomics	1(1-0-2)
SCPM 601	Clinical Concepts in Pharmacology	2(2-0-4)

Thesis

SCPM 799	Dissertation	48(0-192-0)
----------	--------------	-------------

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

Proposal / Concept

1. Applicants who have their Bachelor's degree must submit a summary of his/her research project achieved at Bachelor's degree level, and identify the research project he/she is planning to pursue at the PH.D. level.

2. Applications who have their Master's degree must submit his/her Master's degree thesis, and identify the research project he/she is planning to pursue at the PH.D. level.

Additional advantages of the programme

The programme provides the opportunity for students to spend their time teaching classes, and doing important biological research. They will undertake activities to facilitate written communication skills, develop an understanding of the responsible conduct of science, and examine career opportunities.

Advantages:

- A nationally - renowned faculty
- A national financial aid package and teaching assistance
- Ground - breaking research (pharmacogenomics, molecular pharmacology, herbal medicines, neuropharmacology, cardiovascular pharmacology, pharmacokinetics.)
- State - of - the - art research facilities, and
- A first - class educational experience

Details of Scholarships

1. Scholarship of the 60th Year Supreme Reign of His Majesty King Bhumibol Adulyadej.
2. Royal Golden Jubilee Ph.D. Scholarships.
3. Teaching Assistantship (TA).
4. Institutional Strengthening Program.
5. Scholarships for International Graduate Students.

Application Process

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

Additional information for applicants

The program of pharmacology requires student to study the pre - requisite course.

Required Documents

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

1. Completed an Online Application at www.grad.mahidol.ac.th which comprised with
 - Form A** : Application Form
 - Form B** : Background and Proposed Field of Study
 - Form C** : Recommendation Forms (directly submitted by at least 2 referees)
2. Two copies of Degree Certificate (with officially certified English translation)
3. Two copies of Academic Transcript (with officially certified English translation)
4. Two copies of Recent Photos (Passport size)
5. Two copies of Passport
6. Two copies of English certificate (TOEFL/ IELTS/ MU-Grad Test)

(For Doctoral Program)

- TOEFL ITP score of at least 500, TOEFL Internet-based score of 61, or IELTS score of 5

(For Master's Program)

- TOEFL ITP score of at least 480, TOEFL Internet-based score of 54, IELTS score of 5 or MU GRAD TEST score of 60.

Notes

- Only accept TOEFL ITP score from examination center arranged by Faculty of Graduate Studies, Mahidol University.
 - TOEFL ITP taken from other domestic and overseas institutes are invalid.
 - The test date must be within previous 2 years before application date
 - Applicant who obtained a valid English score must submit an **official score certificate** along with your application. Otherwise, your English score will not be considered.
 - Detail of English Competency Standard for Admission:
<http://www.grad.mahidol.ac.th/en/current-students/language-center.php>
7. Two copies of Curriculum Vitae
 8. Two copies of Statement of Purposes and Career Goals
 9. Two copies of Current bank statement / Scholarship letter (if any)
 10. Two copies of Concept paper / research proposal (recommended for all applicants)
 11. Two copies of additional documents may be requested by each program (such as letter of work experience / professional license/ related certificates and awards)

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

- Lecturer in academic institutions
- Researcher in the university, government and private sector
- Pharmacological instructor in the government and private sector
- Consultant/expert in pharmacology in the organization of public and private sector

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

1. **Assoc. Prof. Dr. Darawan Pinthong** (E-mail : darawan.pin@mahidol.ac.th)
Room Pr508 , Preclinic Building, Floor 5,
Department of Pharmacology, Faculty of Science.
Tel. : 2201 5642 Fax. : 0 2354 7157
2. **Asst. Prof. Dr. Pornpun Vivithanaporn** (E-mail : pornpun.viv@mahidol.ac.th)
Room Pr526, Preclinic Building, Floor 5, Department of Pharmacology, Faculty of Science.
Tel. : 0 2201 5651 Fax. : 0 2354 7157

Program Coordinator

Asst. Prof. Dr. Pornpun Vivithanaporn (E-mail : pornpun.viv@mahidol.ac.th)
Room Pr526, Preclinic Building, Floor 5, Department of Pharmacology, Faculty of Science.
Tel. : 0 2201 5651 Fax. : 0 2354 7157

- Notes**
1. The program of Pharmacology requires students to study the pre - requisite course:
- SCID 500 Cell and Molecular Biology 3 Credits
 2. 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 : gradinter@mahidol.ac.th**