

Admission Number

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**Master of Science Programme in Pharmaceutical Chemistry and Phytochemistry
(International Programme)**

หลักสูตร วิทยาศาสตร์มหาบัณฑิต สาขาวิชา เกสัชเคมีและพฤกษเคมี (หลักสูตรนานาชาติ)(ภาคปกติ)

Faculty of Pharmacy

คณะเภสัชศาสตร์

Expected number of students to be accepted year round : 20 Students

There are two major concentrations

1. Pharmaceutical Chemistry (แขนงเภสัชเคมี)
2. Phytochemistry (แขนงพฤกษเคมี)

Admission Requirements

A candidate must:

Plan A1

1. Hold a Bachelor Degree in Health Sciences or related areas from a local or overseas educational institution recognized by the Commission on Higher Education;
2. Have a minimum grade point average of 2.75;
3. Have a minimum 3 years experience in related fields or have related research paper published in national or international peer-reviewed journals
4. Submit a certificate of English proficiency with minimum admission score:
 - IELTS - at least 3 or
 - TOEFL INTERNET BASED - at least 32 or
 - TOEFL ITP (test arranged by Faculty of Graduate Study, Mahidol University) - at least 400 or
 - MU GRAD TEST (COMPUTER BASED) - at least 36

Important Notes:

- English proficiency score must be taken within 2 years up to the admission date.
 - Application without submitting a valid English certificate will NOT be considered.
 - MU English Competence Standards: www.grad.mahidol.ac.th
 - MU English proficiency tests, please contact the Language Center, Faculty of Graduate Studies. Tel. 0-2441-4125 ext. 221-222
5. Exemption from the above conditions may be granted by the Programme Committee under exceptional circumstances.

Plan A2

1. Hold a Bachelor Degree or be studying in the final semester of Bachelor Degree in Health Sciences or related areas from institutes approved by the Higher Education Accreditation Council;
2. Have a minimum grade point average of 2.75;
3. Submit a certificate of English proficiency with minimum admission score:
 - IELTS - at least 3 or
 - TOEFL INTERNET BASED - at least 32 or
 - TOEFL ITP (test arranged by Faculty of Graduate Study, Mahidol University) - at least 400 or
 - MU GRAD TEST (COMPUTER BASED) - at least 36

Important Notes:

- English proficiency score must be taken within 2 years up to the admission date.
 - Application without submitting a valid English certificate will NOT be considered.
 - MU English Competence Standards: www.grad.mahidol.ac.th
 - MU English proficiency tests, please contact the Language Center, Faculty of Graduate Studies. Tel. 0-2441-4125 ext. 221-222
4. Exemption from the above conditions may be granted by the Programme Committee under exceptional circumstances.

Written Examination (Pharmaceutical Chemistry)

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

Subjects for examination	Time (Morning session)
1. Pharmaceutical Chemistry	9.00 - 12.00 a.m.
Examination Place Mahidol University , Salaya , Nakhonpathom more details : www.grad.mahidol.ac.th	

Written Examination (Phytochemistry)

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

Subjects for examination	Time (Morning session)
1. Phytochemistry	9.00 - 12.00 a.m.
Examination Place Mahidol University , Salaya , Nakhonpathom more details : www.grad.mahidol.ac.th	

Curriculum Structure**Credit****Plan A1**

Pre - requisite courses

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Thesis

36

Plan A2

Required Courses

19

Elective Courses

5

Thesis

12

Plan A1**Credit****Pre - requisite courses**

PYPP 600 Seminar in Pharmaceutical Chemistry and Phytochemistry I

1(1-0-2)

PYPP 601 Seminar in Pharmaceutical Chemistry and Phytochemistry II

1(1-0-2)

PYID 685 Research Methodology in Pharmacy I

2(2-0-4)

Thesis

PYID 798 Thesis

36(0-108-0)

Plan A2**Required Courses**

PYPC 659 Instrumental Analysis Laboratory

3(1-6-4)

PYPC 660 Organic Medicinal Chemistry

3(2-3-5)

PYPG 656 Structure Elucidation

3(3-0-6)

PYPC 667 Phytochemistry

3(3-0-6)

PYPP 600 Seminar in Pharmaceutical Chemistry and Phytochemistry I

1(1-0-2)

PYPP 601 Seminar in Pharmaceutical Chemistry and Phytochemistry II

1(1-0-2)

PYID 685 Research Methodology in Pharmacy I

2(2-0-4)

GRID 603 Biostatistics

3(3-0-6)

Elective Courses

PYPC 639 Advanced Pharmaceutical Analysis I

3(2-3-5)

PYPC 640 Advanced Pharmaceutical Analysis II

3(2-3-5)

PYPC 650 Reactions in Pharmaceutical Analysis

3(2-3-5)

PYPC 651 Stability of Pharmaceuticals

3(2-3-5)

PYPC 652 Chemistry of Heterocyclic Drugs	3(2-3-5)
PYPC 656 Chemometrics in Pharmaceutical Chemistry	3(2-3-5)
PYPC 657 Drug Design I	3(2-3-5)
PYPC 658 Drug Design II	3(2-3-5)
PYPC 662 Advanced Organic Pharmaceutical Chemistry	3(2-3-5)
PYPC 663 Radiopharmaceutical Chemistry	3(3-0-6)
PYPC 664 Computer-aided Drug Design and Development	3(2-3-5)
PYPG 649 Development of Medicinal Plants I	3(2-3-5)
PYPG 650 Development of Medicinal Plants II	3(2-3-5)
PYPG 651 Pharmaceutical Phytochemistry I	3(2-3-5)
PYPG 652 Pharmaceutical Phytochemistry II	3(2-3-5)
PYPG 657 Separation Technique	3(2-3-5)
PYPG 658 Biosynthesis of Natural Products	3(2-3-5)
PYPG 664 Nuclear Magnetic Resonance Spectroscopy	3(3-0-6)
PYPG 672 Advanced Structure Elucidation	3(3-0-6)
PYPG 668 Applications of Plant Biotechnology	3(3-0-6)
PYPB 601 Traditional Thai Medicine	3(3-0-6)
PYPB 604 Medical Ethnobotany	3(2-3-5)
PYPB 607 Development of Herbal Medicine	3(2-3-5)
PYPP 605 Special Problems in Pharmaceutical Chemistry and Phytochemistry I	3(0-9-3)
SCID 500 Cell and Molecular Biology	3(3-0-6)
Thesis	
PYID 698 Thesis	12(0-36-0)

Details of Scholarships

Scholarship of the 60th Year of the Supreme Reign of His Majesty King Bhumibol Adulyadej.

Application Process

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

Required Documents

Applicants must upload all documents via online admission system. All documents must be in PDF format (maximum size 2 MB). Photograph must be in JPEG format

- 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 final year 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
- A copy of house registration certification
- A copy of Certificate of English proficiency :
IELTS / TOEFL INTERNET BASED / TOEFL ITP / MU GRAD TEST(COMPUTER BASED)
- A copy of proof of payment.

Job option after graduation

A researcher/academician in the fields of drug development, quality control of pharmaceutical product and natural material in public/private research institutions or drug and medical product company.

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

1. **Assist.Prof. Dr. Natthinee Anantachoke** (E-mail : natthinee.ana@mahidol.ac.th)
Room 508, Rajaratana Building, Floor 5,
Department of Pharmacognosy, Faculty of Pharmacy.
Tel: 0 2644 8677-91 Ext : 5530, 5531, 5519 Fax: 0 2644 8701

Pharmaceuticals Chemistry:

1. **Lect. Jutarat Pimthon** (E-mail : jutarat.pim@mahidol.ac.th)
Rajaratana Building, Floor 4,
Department of Pharmaceutical Chemistry, Faculty of Pharmacy.
Tel: 0 2644 8677-91 Ext : 5402, 5407 Fax: 0 2644 8695

Program Coordinator

Mr. Ithipol Ithiamnuaypan (E-mail : ithipol.ith@mahidol.ac.th)

Room 508, Rajaratana Building, Floor 5,

Department of Pharmacognosy, Faculty of Pharmacy.

Tel: 0 2644 8677-91 Ext : 5530-1

Fax: 0 2644 8701

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