

Admission Number

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

หลักสูตร วิทยาศาสตร์มหาบัณฑิต สาขาวิชา เกษีษเคมีและพฤกษเคมี (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:

1. Hold a degree or be studying in the final year of Bachelor's Degree in Health Science or other related fields of study such as Chemistry, Microbiology, Biology, Biotechnology.
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
Required Courses	19
Elective Courses	6
Thesis	12

			Credit
Required Courses			
PYPC	659	Instrumental Analysis Laboratory	3(1-6-4)
PYPC	660	Organic Medicinal Chemistry	3(2-3-5)
PYPG	669	Basis of Structure Elucidation	3(3-0-6)
PYPG	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)
PYPG	651	Pharmaceutical Phytochemistry I	3(2-3-5)
PYPG	652	Pharmaceutical Phytochemistry II	3(2-3-5)
PYPG	657	Separation Techniques	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	665	Phytopharmacy	2(2-0-4)
PYPG	670	Development of Medicinal Plants I	3(2-3-5)
PYPG	671	Development of Medicinal Plants II	3(2-3-5)
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	602	Special Problems in Pharmaceutical Chemistry and Phytochemistry	2(0-6-2)
PYID	695	Applied Plant Biotechnology in Pharmaceutical Sciences	3(2-3-5)
SCID	500	Cell and Molecular Biology	3(3-0-6)

Thesis

PYID	698	Thesis .	12(0-36-0)
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* These may change in cases where there are suggestions for the improvement of the curriculum

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)

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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