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Master of Science Programme in Plant Sciences (International Programme)

หลักสูตร วิทยาศาสตร์มหาบัณฑิต

สาขาวิชา วิทยาการพืช (หลักสูตรนานาชาติ) (ภาคปกติ)

Faculty of Science & Faculty of Pharmacy

โครงการร่วมคณะวิทยาศาสตร์และคณะเภสัชศาสตร์

Department of Plant Science, Faculty of Science.

Department of Pharmaceutical Botany, Faculty of Pharmacy.

ภาควิชาพฤกษศาสตร์ และภาควิชาเภสัชพฤกษศาสตร์

Expected number of Students to be accepted all year round : 30 Students

Admission Requirements

1. Students must hold a bachelor's degree in Plant Science Botany Biology Biotechnology Pharmacy and Thai traditional medicine or others from institute which recognized by Office of the Higher Education and granted by Programme Committee.
2. have a minimum grade point average of 2.5;
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 (Applicants must attend the examination date accurately to your admission round)

Subjects for examination	Time (Morning session)
1. Basic in Plant Science	9.00 - 10.30 a.m.
Examination Place Mahidol University , Salaya , Nakhonpathom more details : www.grad.mahidol.ac.th	

Curriculum Structure

	Credit
Core Courses	12
Elective Courses no less than	12
Thesis	12
Core Courses	Credit
SCID 516 Biostatistics	3(3-0-6)
SCID 518 Generic Skills in Science Research	1(1-0-2)
SCPL 562 Integrative Plant Science	3(2-3-5)
SCPL 672 Seminar in Plant Science I	1(1-0-2)
PYPB 614 Seminar in Plant Science II	1(1-0-2)
PYPB 621 Integrative Pharmaceutical Botany	3(3-0-6)
Elective Courses	
Plant Molecular Biology and Genetics	
SCPL 521 Plant Cytogenetics	3(2-3-5)
SCPL 522 Advanced Plant Molecular Biology	3(3-0-6)
SCPL 523 Techniques in Plant Molecular Biology	3(2-3-5)
SCPL 561 Plant Virology	3(3-0-6)
SCPL 571 Current Topics in Plant Science	2(2-0-4)
SCPL 621 Applied Plant Genetics	2(2-0-4)
SCPL 671 Special Problems in Plant Science	2(1-3-3)
Plant Conservation and Breeding Technology	
SCPL 501 Advanced Plant Taxonomy	3(2-3-5)
SCPL 502 Ethnobotany	3(3-0-6)
SCPL 503 Pollen Biology	3(2-3-5)
SCPL 523 Techniques in Plant Molecular Biology	3(2-3-5)
SCPL 524 Plant Mutation	3(3-0-6)
SCPL 541 Advanced Plant Tissue Culture	3(3-0-6)
SCPL 544 Advanced Technique in Plant Tissue Culture	1(0-3-1)
SCPL 571 Current Topics in Plant Science	2(2-0-4)
SCPL 611 Plant Adaptation to Environmental Changes	2(2-0-4)
SCPL 671 Special Problems in Plant Science	2(1-3-3)

Plant Physiology

SCPL 511 Plant Bioregulators	3(3-0-6)
SCPL 543 Advanced Phytochemistry	3(2-3-5)
SCPL 571 Current Topics in Plant Science	3(2-3-5)
SCPL 611 Plant Adaptation to Environmental Changes	2(2-0-4)
SCPL 671 Special Problems in Plant Science	2(1-3-3)

Pharmaceutical Botany

The students must take the courses according to the above groups. Apart from the above courses, the students may take other elective courses that are relevant to their needs, under the approval of the advisors.

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)
PYPB 622 Plant Database Construction and Management	3(2-3-5)
PYPB 610 Current Topics in Pharmaceutical Botany	2(2-0-4)
PYPB 612 Conservation and Utilization of Medicinal Plant Genetic Resources	3(3-0-6)
PYID 695 Applied Plant Biotechnology in Pharmaceutical Sciences	3(2-3-5)

Thesis

SCPL/ PYPB 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**

Additional advantages of the programme

The programme offers a wide diversity of research topics , under supervision and with close collaboration of experts in Plant Science and Pharmaceutical Botany.

Details of Scholarship

- Teaching assistantship (TA)
- Research assistance
- Institutional strengthening program
- Science Achievement Scholarship of Thailand (SAST)

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

1. Learned person or Knowledge communicator and Academician
2. Researcher in University or Research institutes
3. Sale representative of scientific instruments and chemical materials in commercial sectors
4. Owner of the private company.

Further information may be obtained from Director of Graduate Studies, Plant Science Studies :

1. **Asst. Prof. Aussanee Pichakum** (E-mail : aussanee.pic@mahidol.ac.th)

Room N303 , N Building, Floor 3,
Department of Plant Science, Faculty of Science.
Tel. : 0 2201 5232 Fax : 0 2354 7172

Program Coordinator

- Miss Ladawan Viparattanakorn** (E-mail : ladawan.vip@mahidol.ac.th)

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Notes 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**