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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. 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.

4. 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)

Exceptions 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.)

<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. Basic in Plant Science	13.30 - 14.30 p.m.	3. Basic in Plant Science	13.30 - 14.30 p.m.
<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.			

## Curriculum Structure

Core Courses	Credit 12
Elective Courses no less than	12
Thesis	12

	Credit
<b>Core Courses</b>	
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)
<b>Elective Courses</b>	
<b>Plant Molecular Biology and Genetics</b>	
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)
<b>Plant Conservation and Breeding Technology</b>	
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](http://www.grad.mahidol.ac.th)

### **Required Documents**

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

- Two (2) 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) 2 copies
- A letter certifying that an applicant is currently in the final year prior to graduation (for an applicant seeking for a degree) 2 copies
- 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 semester prior to graduation 2 copies
  - A copy of identification card 2 copies
  - A copy of house registration certification 2 copies
  - A copy of Certificate of English score: TOEFL/IELTS/MU-Test (if any). See detail here: [http://www.grad.mahidol.ac.th/grad/academicinfo/engstandard2553\\_th.php](http://www.grad.mahidol.ac.th/grad/academicinfo/engstandard2553_th.php) 2 copies
- 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. 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](mailto: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](mailto:ladawan.vip@mahidol.ac.th))

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**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)**