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Doctor of Philosophy Programme in Botany (International Programme)

หลักสูตร ปรัชญาดุษฎีบัณฑิต

สาขาวิชา พฤษศาสตร์ (หลักสูตรนานาชาติ) (ภาคปกติ)

Faculty of Science

Department of Plant Science

คณะวิทยาศาสตร์

ภาควิชา พฤษศาสตร์

Expected number of students to be accepted all year round :5.....Students

Admission Requirements

A candidate must:

1. Hold a Bachelor of Science degree or currently enroll in the final year of a Bachelor of Science program in the following areas: Botany, Biology, Biotechnology, Genetics, Biological Science, and relating disciplines, with a GPA no less than 3.50
2. Hold a Master of Science degree or currently enroll in the final year of a Master of Science program in the following areas: Botany and Plant Science (Biological Science), or relating disciplines, i.e., Biology, Biotechnology, Genetics, and other relating Biological Science disciplines, or equivalent.
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

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

There is NO written examination for this program. Applicants must check their eligibility for interview upon the announcing date of the interview list which is scheduled for each admission round.

Curriculum Structure

	Credit
For students holding a Master of Science degree in Botany, Plant Science (Biological Science), or relating disciplines	
Required Courses	9
Elective Courses no less than	3
Thesis	36
For students holding a Master of Science degree in Biology, Biotechnology, Genetics, and other areas of relating Biological Science disciplines or equivalent	
Pre-requisite Courses	-
Required Courses	9
Elective Courses no less than	3
Thesis	36
For students holding a Bachelor of Science degree in Botany, Biology, Biotechnology, Genetics, and other relating Biological Science disciplines or equivalent	
Required Courses	16
Elective Courses no less than	8
Thesis	48

	Credit
Pre-requisite Courses	
For students with Master's degree in any equivalent degree	
SCPL 562 Integrative Plant Science	3(2-3-5)
Required Courses	
For students with Master's degree	
SCPL 601 Advanced Botanical Research	1(1-0-2)
SCPL 603 Frontier in Plant Systematics and Evolution	2(2-0-4)
SCPL 604 Frontier in Interdisciplinary Botany	2(2-0-4)
SCPL 612 Frontier in Plant Physiology	2(2-0-4)
SCPL 622 Frontier in Plant Cell and Molecular Biology	2(2-0-4)
For students with Bachelor's degree	
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 601 Advanced Botanical Research	1(1-0-2)
SCPL 603 Frontier in Plant Systematics and Evolution	2(2-0-4)
SCPL 604 Frontier in Interdisciplinary Botany	2(2-0-4)
SCPL 612 Frontier in Plant Physiology	2(2-0-4)
SCPL 622 Frontier in Plant Cell and Molecular Biology	2(2-0-4)

Elective Courses

For students with Master's degree

SCPL 602 Skill in Botanical Knowledge Transfer	1(0-2-1)
SCPL 673 Seminar in Advanced Botany I	1(1-0-2)
SCPL 674 Seminar in Advanced Botany II	1(1-0-2)
SCPL 611 Plant Adaptation to Environmental Changes	2(2-0-4)
SCPL 621 Applied Plant Genetics	2(2-0-4)

For students with Bachelor's degree

SCPL 602 Skill in Botanical Knowledge Transfer	1(0-2-1)
SCPL 671 Special Problems in Plant sciences	2(1-3-3)
SCPL 673 Seminar in Advanced Botany I	1(1-0-2)
SCPL 674 Seminar in Advanced Botany II	1(1-0-2)
SCPL 611 Plant Adaptation to Environmental Changes	2(2-0-4)
SCPL 621 Applied Plant Genetics	2(2-0-4)

Thesis

For students with Master's degree

SCPL 699 Dissertation	36(0-108-0)
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For students with Bachelor's degree

SCPL 799 Dissertation	48(0-144-0)
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*** These may change in cases where there are suggestions for the improvement of the curriculum**

Additional advantages of the programme

Our department is one of three departments in Thailand to offer graduate degrees in Botany. Our research involves multidisciplinary approaches in order to response to various critical problems, such as global climate change, global strategy for plant conservation, nature disasters, energy crisis, food and medicine crisis. Moreover, many research projects are developed by adopting the 'Sufficiency Economic Philosophy' of His Majesty King Bhumibol Adulyadej and project such as the Plant Genetic Conservation Project under the Royal Initiative of Her Royal Highness Princess Maha Chakri Sirindhorn. This would make significant contributions to the well-being of Thai Society. Research activities are always published in international journals every year.

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
- A copy of proof of payment.

Job option after graduation

1. Expert and Academic in Educational Institutes, Health Science and Applied Sciences Agencies
2. Researcher or Academic consultant specialized in Botany, Plant Genetics and Molecular Biology, Plant Biotechnology and Scientific instrumentals of government and private sectors
3. Advanced specialist or consultant in plant, its products, and relating technologies
4. Entrepreneurs

Further information may be obtained from

1. **Asst. Prof. Dr. Nathinee Panvisavas** (E-mail: nathinee.pan@mahidol.ac.th)
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Tel: 02-201-5232 Fax: 02-354-7172
2. **Asst. Prof. Dr. Ngarmnij Chuenboonngarm** (E-mail: ngarmnij.chu@mahidol.ac.th)
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Program Coordinator

1. **Miss Ladawan Viparattanakorn** (E-mail : ladawan.vip@mahidol.ac.th)
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Note 1. For more education information please visit this website: 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