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Master of Science Programme in Pathobiology (International Programme)

หลักสูตร วิทยาศาสตร์มหาบัณฑิต

สาขาวิชา พยาธิชีววิทยา (หลักสูตรนานาชาติ) (ภาคปกติ)

Faculty of Science

Department of Pathobiology

คณะวิทยาศาสตร์

ภาควิชา พยาธิชีววิทยา

Expected number of students to be accepted all year round: 10 Students

Admission Requirements

A candidate must:

1. Hold a Bachelor's Degree or equivalent in Biological Science or related fields such as Doctor of Medicine, Veterinary Science, Pharmacy, Dentistry, and Medical Technology from the institute where approved by Office of the Higher Education Commission, with a grade point average of at least 2.50.
2. Fulfill the entry requirements of the Faculty of Graduate Studies.
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 certain 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
Required Courses	15
Elective Courses no less than	9
Thesis	12

	Credit
Required Courses	
SCID 503 Systemic Bioscience	3(3-0-6)
SCID 518 Generic Skills in Science Research	1(1-0-2)
SCPA 501 General Pathology	2(1-2-3)
SCPA 502 Systemic Pathology	2(1-2-3)
SCPA 605 Essential Pathobiology	2(1-2-3)
SCPA 610 Cellular Pathology	2(2-0-4)
SCPA 611 Seminar in Pathobiology I	1(1-0-2)
SCPA 612 Seminar in Pathobiology II	1(1-0-2)
SCPA 613 Research Rotation in Pathobiology	1(0-2-1)
Elective Courses	
GRID 603 Biostatistics	3(3-0-6)
SCID 500 Cell and Molecular Biology	3(3-0-6)
SCPA 602 Anatomical Basis for Pathological Study	2(1-2-3)
SCPA 603 Histopathological Techniques for Routine and Research	2(1-2-3)
SCPA 604 Clinical Pathology	2(1-2-3)
SCPA 606 Selected Topic in Pathobiology	2(1-2-3)
SCPA 607 Pathobiology and Mechanisms of Cancer	2(2-0-4)
SCPA 608 Nutrition Pathology	2(2-0-4)
Thesis	
SCPA 698 Thesis	12(0-36-0)

* These may change in cases where there are suggestions for the improvement of the curriculum

Additional advantages of the programme

The curriculum is designed to prepare students for a professional career in pathobiological sciences. Emphasis is on the basic principles and concepts of cell injury, particularly at the cellular and subcellular levels, in addition to changes at the tissue level and the pathogenesis of several diseases such as genetic disorders, cancer, and infectious diseases. After completion of the programme, graduate students will be able to conduct research as well as to teach in subjects related to pathobiological sciences and related scientific areas.

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)
- 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

After M.Sc. graduation, the student has several job options in private, governmental and academic sectors for a professional career in the field of pathobiology and related medical sciences as the researcher, scientist or medical scientist.

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

1. **Dr. Amornrat Naranuntarat Jensen** (E-mail: amornrat.nar@mahidol.ac.th)
Room Pr 218, Pr Building, Floor 2, Department of Pathobiology, Faculty of Science.
Tel: 0 2201 5579 Fax: 0 2354 7158
2. **Asst. Prof. Dr. Prasit Suwannalert** (E-mail: prasit.suw@mahidol.ac.th)
Room Pr 106, Pr Building, Floor 1, Department of Pathobiology, Faculty of Science.
Tel: 0 2201 5578 Fax: 0 2354 7158

Program Coordinator

Mr. Phiradet Thrammarugx (E-mail: phiradet.tha@mahidol.ac.th)
Room Pr 106, Pr Building, Floor 1, Department of Pathobiology, Faculty of Science.
Tel: 0 2201 5550 Fax: 0 2354 7158

Notes

1. The programme of Pathobiology requires students to study the pre - requisite course:
 - SCID 500 Cell and Molecular Biology 3 Credits
2. For more information : <http://www.sc.mahidol.ac.th/scpa>

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