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Master of Science Programme in Tropical Medicine (International Programme)

หลักสูตร วิทยาศาสตร์มหาบัณฑิต

สาขาวิชา อายุรศาสตร์เขตร้อน (หลักสูตรนานาชาติ) (ภาคปกติ)

Faculty of Tropical Medicine

คณะเวชศาสตร์เขตร้อน

Expected number of Students to be accepted all year round : 50 Students

Admission Requirements

A candidate must:

1. Must hold a M.D.,D.D.S.,D.V.M., B.Pharm, B.N.S. and B.Sc. from University and/Institute accredited by the Commission on Higher Education and/or Office of the Civil Service Commission.
2. have a minimum grade point average of 2.50;
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. Exemptions 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.	General Science	} 9.00 - 11.00 a.m.
2.	Tropical Medicine	
Examination Place Mahidol University , Salaya , Nakhonpathom more details : www.grad.mahidol.ac.th		

Curriculum Structure

	Credit
Core Courses	8
Required Courses (หมวดวิชาบังคับและวิชาบังคับตามวิชาเอก)	12
Elective Courses not less than	4
Thesis	12

	Credit
Core Courses	
TMID 534 Cellular and Molecular Biology of Tropical Diseases	2(2-0-4)
TMID 545 Etiologic Pathogens and Vectors of Tropical Diseases	3(2-2-5)
TMID 536 Host and Environmental Aspects of Tropical Diseases	2(2-0-4)
TMID 548 Epidemiological Concepts in Tropical Medicine	1(1-0-2)
Required Courses	
TMID 513 Biostatistics	2(2-0-4)
TMID 544 Research Methodology	2(2-0-4)
วิชาบังคับ (ตามวิชาเอก)	
Clinical Tropical Medicine	
TMCD 510 Parasitic Diseases	2(2-0-4)
TMCD 511 Non-parasitic Diseases	2(2-0-4)
TMCD 512 Clinical Laboratory Methods for Research	2(2-0-4)
TMCD 513 Principles of Clinical Research	2(1-2-3)
Clinical Pharmacology	
TMCD 514 Clinical Tropical Pharmacology	2(2-0-4)
TMCD 515 Clinical Pharmacokinetics I	2(2-0-4)
TMCD 516 Clinical Pharmacokinetics II	2(1-2-3)
TMCD 517 Evaluation of Clinical Pharmacological Research	2(1-2-3)
Epidemiology	
TMHG 520 Advanced Epidemiology	2(2-0-4)
TMHG 521 Intermediate Biostatistics	2(1-2-3)
TMHG 522 Advanced Data Analysis in Epidemiology	2(1-2-3)
TMSE 503 Social Epidemiology	2(2-0-4)

Microbiology

TMMI 510 Medical Microbiology	2(2-0-4)
TMMI 511 Immunology I	2(2-0-4)
TMMI 515 Practical Microbiology	2(0-4-2)
TMMI 513 Advanced Microbiology	2(2-0-4)

Immunology

TMMI 510 Medical Microbiology	2(2-0-4)
TMMI 511 Immunology I	2(2-0-4)
TMMI 512 Immunology II	2(2-0-4)
TMMI 516 Practical Immunology	2(0-4-2)

Biochemical Nutrition

TMNU 506 Nutrition	2(2-0-4)
TMNU 516 Nutritional Laboratory	2(1-2-3)
TMNU 510 Biochemistry	2(2-0-4)
TMNU 517 Advanced Biochemistry and Nutrition	2(2-0-4)

Tropical Pathology

TMPT 502 Microscopic Anatomy	2(1-2-3)
TMPT 503 Physiology	2(2-0-4)
TMPT 504 Pathology	2(1-2-3)
TMPT 505 Pathology of Tropical Diseases	2(1-2-3)

Social Medicine

TMSE 501 Social Science Research Methodology	2(2-0-4)
TMSE 502 Applied Social Sciences in Tropical Medicine	2(2-0-4)
TMSE 503 Social Epidemiology	2(2-0-4)
TMSE 504 Current Problems in Medical Social Sciences	2(2-0-4)

Environmental Health and Toxicology

TMSE 508 Environmental Epidemiology	2(2-0-4)
TMSE 523 Environmental Health Impact Assessment	2(1-2-3)
TMSE 524 Principles of Environmental Health and Toxicology	2(2-0-4)
TMSE 525 Health Risk Assessment	2(2-0-4)

Parasitology and Medical Entomology

TMEN 513 Medical Entomology	2(1-2-3)
TMHM 505 Medical Helminthology	2(1-2-3)
TMID 516 Practical Parasitology	2(1-2-3)
TMPZ503 Medical Protozoology	2(1-2-3)

Molecular Tropical Medicine

TMMO 501 Molecular Biology and Genetics	2(2-0-4)
TMMO 502 Advances in Molecular Tropical Medicine and Genetics	2(2-0-4)
TMMO 503 Bioinformatics for Molecular Tropical Medicine and Genetics	2(1-2-3)
TMMO 504 Laboratory Molecular Techniques for Tropical Medicine and Genetics	2(0-4-2)

Environmental Biotechnology

TMSE 529 Principle of Environmental Biotechnology	2(2-0-4)
TMSE 530 Methods in Environmental Biotechnology Study	2(0-4-2)
TMSE 531 Applied Biotechnology	2(2-0-4)
TMSE 533 Advanced Biotechnology for Biological Product Development and Tropical - Disease Control	2(2-0-4)

Elective Courses

TMCD 518 Malaria	2(2-0-4)
TMCD 519 AIDS	2(2-0-4)
TMCD 520 Seminar in Clinical Tropical Pharmacology	2(0-4-2)
TMEN 508 Practical Entomology	2(1-2-3)
TMEN 516 Advanced Methods in Medical Entomology	2(2-0-4)
TMHG 518 Data Management and Presentations in Research	2(1-2-3)
TMHG 519 Molecular Epidemiology	2(2-0-4)
TMHG 516 Application of Geographical Information System (GIS) in Epidemiology of - Tropical Diseases	2(1-2-3)
TMHG 517 Statistical Methods in Spatial Epidemiology	2(1-2-3)
TMHM 507 Systematic Helminthology	2(1-2-3)
TMID 515 Advanced Molecular Biology in Tropical Diseases	2(2-0-4)
TMID 518 Advanced Parasitology	2(2-0-4)
TMID 519 Experimental Techniques in Parasitology	2(1-2-3)
TMID 520 Molecular Biology of Parasites and Vectors	2(2-0-4)
TMMO 505 Instrumentation in Molecular Tropical Medicine and Genetics	2(1-2-3)

TMMO 506 Seminar in Molecular Tropical Medicine and Genetics	2(2-0-4)
TMMO 507 Molecular Enzymology and Proteomics	2(2-0-4)
TMMI 514 Advanced Immunology	2(2-0-4)
TMNU 508 Nutritional Epidemiology	2(2-0-4)
TMNU 512 Biochemical and Nutritional Instruments	2(1-2-3)
TMNU 513 Molecular Biology in Nutrition	2(2-0-4)
TMPT 506 Principles of the Electron Microscope	2(1-2-3)
TMSE 505 Statistical Analysis in Social Sciences	2(2-0-4)
TMSE 506 Health Program Monitoring and Evaluation	2(2-0-4)
TMSE 528 Environmental Management	2(2-0-4)
TMSE 511 Medical Malacology	2(1-2-3)
TMSE 526 Analytical Techniques in Environmental Health and Toxicology	2(1-2-3)
TMSE 532 Biotechnology business	2(2-0-4)
TMID 546 Practical Molecular Biology of Parasites and Vectors *	2(1-2-3)
TMSE 527 Impact of Climate Change on Health *	2(2-0-4)

Thesis

TMID 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

English is the language of instruction and learning in Faculty of Tropical Medicine programmes and research.

Application Process

Application is only available via online application at www.grad.mahidol.ac.th.

Proposal / Concept Paper

Background and proposed field of study (**Form : B**)

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

- Researcher who has an advanced skill Tropical diseases
- A Tropical Medicine specialist
- Health Scientist
- Medical Scientists who have a high skill and ability in Tropical diseases of research institute/government and private

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

1. **Assoc. Prof. Waranya Wongwit** (E-mail : waranya.won@mahidol.ac.th)
Chamlong Harinasuta Building, Floor 3, Department of Social and Environmental Medicine,
Faculty of Tropical Medicine.
Tel: 0 2306 9100-10 Ext.1532 Fax: 0 2354 9150
2. **Assoc.Prof. Kesinee Chotivanich** (E-mail : kesinee.cho@mahidol.ac.th)
Chamlong Harinasuta Building, Floor 3, Department of Social and Environmental Medicine,
Faculty of Tropical Medicine.
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Program Coordinator

Mrs.Chiraporn Praevamit (E-mail : chiraporn.pra@mahidol.ac.th)
Office of Educational Administration, Chamlong Harinasuta Building, Floor 3,
Faculty of Tropical Medicine.
Tel: 0 2306 9130 Fax: 0 2354 9150

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



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Email: gradinter@mahidol.ac.th; URL : <http://www.grad.mahidol.ac.th>

FORM: B

BACKGROUND AND PROPOSED FIELD OF STUDY

1. Name of Applicant in Roman block capitals

(Family name)

(Given name)

(Middle name)

2. Full name in native language: _____

3. Proposed study program in Mahidol University (*State the outline of your major field of study on this side and the details of your study program on the backside of this sheet in concreteness. This section will be used as one of the most important references for selection. Statement must be typewritten or written in block letters. Additional sheets of paper may be attached if necessary.*)

3.1. Field of your specialization studied in the past (Be as detailed and specific as possible.)

3.2. Area of interest in Mahidol University in detail and concreteness, you can add a separate sheet if necessary.

3.3. Name of the prospective supervisor desired (*this item is not necessary; this is just incase that you have already contacted the supervisor at Mahidol University*)

Name:	Program:
Department:	Faculty:

4. **State the titles or subjects of manuscript, books or papers** (including graduation thesis/senior project authored by the applicant), if any, with the name and address of the publisher and the date of publication. You can add a separate sheet if necessary.