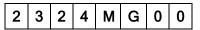# Master of Science Programme in Health Informatics (International Programme)

หลักสูตร วิทยาศาสตรมหาบัณฑิต   สาขาวิชาสนเทศศาสตร์ทางสุขภาพ (หลักสูตรนานาชาติ) (ภาคปกติ)

Faculty of Public Health   **Department of Biostatistics**

คณะสาธารณสุขศาสตร์   ภาควิชาชีวสถิติ

Expected number of students to be accepted all year round : 2 Students

Admission Requirements

A candidates must:

1. hold a Bachelor's degree in Computer Science, Computer Engineering, Information Technology, Health Informatics, Mathematics, Statistics, Medicine, Dentistry, Pharmacy, Nursing, Medical Technology, Physical Therapy, Public Health, Health Science or related areas.
2. Receive a cumulative GPA of at least 3.00;
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. For those who already hold a valid English score, please submit its certificate along with all application documents.

Curriculum Structure

	Credit
Plan A. Type A(2)	
Required courses	20
Elective courses no less than	6
Thesis	12
Plan B.	
Required courses	20
Elective courses no less than	12
Thematic paper	6

		Credit
Elementary Courses		
PHBS 551	Fundamentals of Computer and Informatics	2(1-2-3)
PHBS 552	Fundamentals of Medicine and Health	2(2-0-4)
Required Courses		
PHBS 602	Biostatistics B	3(3-0-6)
PHBS 640	Database System and Computer Networking in Health Informatics	3(2-2-5)
PHBS 641	Medical Informatics and Health Care System	3(2-2-5)
PHBS 642	Principle of Health Informatics	3(3-0-6)
PHBS 644	Research Design and Evaluation in Health Informatics	3(3-0-6)

PHBS	626	Medical Data Records, Standards, Data Coding and Classification Systems	3(2-2-5)
PHBS	681	Seminar in Health Informatics	2(2-0-4)

Elective Courses

PHBS	643	Evidence Based Health Care System	3(3-0-6)
PHBS	645	Health Systems Simulation	3(2-2-5)
PHBS	646	Health care Interface Design	3(2-2-5)
PHBS	647	Data Mining and Knowledge Discovery	3(2-2-5)
PHBS	648	Knowledge Modeling in Health Informatics	3(3-0-6)
PHBS	649	Health Decision Support Systems	3(2-2-5)
PHBS	650	Health Information Technology	3(3-0-6)
PHBS	671	Management of Health Information System	3(3-0-6)
PHBS	672	Information Project Management	3(3-0-6)
PHBS	673	Health Information Systems Security	3(2-2-5)
PHBS	675	Legal Ethical Aspects of Health Informatics	3(3-0-6)
PHBS	676	Object-Oriented System Development in Health Informatics	3(2-2-5)
PHBS	677	Public Health Informatics	3(3-0-6)
PHBS	678	Information Systems for Health Care Delivery	3(3-0-6)
PHBS	685	Special Studies in Health Informatics	2(2-0-4)
PHBS	683	Data Communications and Computer Network Management	3(2-2-5)
PHBS	684	Client-Server Systems	3(2-2-5)

Thesis (For Plan A. Type A(2))

PHBS	698	Thesis	12(0-48-0)

Thematic paper (For Plan B.)

PHBS	660	Thematic paper	6(0-24-0)

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

Additional Advantages of the Programme

There are 2 study plans i.e. A(2) with 12 credits M.Sc. thesis and Plan B with 6 credits thematic paper. It is the students' choice to choose plan of study.

Details of Scholarship

- Scholarship of the 60th Year Supreme Reign of His Majesty King Bhumibol Adulyadej.
- The M.Sc. Health Informatics programme provides 2 scholarships for partial tuition fee waiver up to 50 % of the credit registration fee.

Application Process

Application is only available via online application at 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   2 copies
  (for an applicant with a degree completion)
- A letter certifying that an applicant is currently in the final year prior to graduation   2 copies
  (for an applicant seeking for a degree)
- 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   2 copies
  semester prior to graduation
- 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: 2 copies
  http://www.grad.mahidol.ac.th/grad/academicinfo/engstandard2553_th.php
- 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

- Academic scientist / research associate in health informatics.
- Health information system analyst and developer.
- Health informatics system manager.

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

1. **Lect. Dr. Pichitpong Soontornpipit   (E-mail : pichitpong.soo@mahidol.ac.th)**
   Room 3208 ,Building 3, Floor 2, Department of Biostatistics ,
   Faculty of Public Health.
   Tel: 0 2354 8530   Fax: 0 2354 8534

2. **Assoc. Prof. Piangchan Rojanavipart   (E-mail : piangchan.roj@mahidol.ac.th)**
   Room 3212 ,Building 3, Floor 2, Department of Biostatistics ,
   Faculty of Public Health.
   Tel: 0 2354 8530   Fax: 0 2354 8534

Program Coordinator

Miss Punnapar Rawanont   (E-mail : punnapar.raw@mahidol.ac.th)
Room 3203 ,Building 3, Floor 2, Department of Biostatistics ,
Faculty of Public Health.
Tel: 0 2354 8530   Fax: 0 2354 8534

Notes   1. The programme of Health Informatics requires students to study the pre – requisite course:
     - PHBS 551 Fundamentals of Computer and Informatics 2 Credits
     - PHBS 552 Fundamentals of Medicine   and Health   2 Credits
    2. 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