

## Graduation requirements

*students should:*

1. be in residence for at least one full academic year immediately prior to the awarding of the degree
2. Have completed a minimum of 31 units of formal courses (10 units of core courses, 10 units of major and 3 elective courses (6 units)
3. Have a weighted average of 2.00 or better in the major/required courses and an overall weighted average of 2.00 or better, provided there is no grade of 5.00 in any of the courses.
4. Have successfully defended a master's thesis

## Graduation requirements

*students should:*

1. Be in residence for at least one full academic year immediately prior to the awarding of the degree
2. Have completed a minimum of 37 units of formal courses (15 units of core courses, 10 units of major and 6 elective courses (12 units)
3. Have a weighted average of 2.00 or better in the major/required courses and an overall weighted average of 2.00 or better, provided there is no grade of 5.00 in any of the courses.
4. Have passed the Master's Comprehensive Examination



**COLLEGE OF MEDICINE**  
University of the Philippines Manila

## **MASTER OF SCIENCE IN HEALTH INFORMATICS (MSHI) Medical Informatics Track**

**Offered by  
UP College of Medicine**

### **Contact :**

*Medical Informatics Unit*

### Address :

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Oriented Medical Education  
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### *National Graduate Office*

University of the Philippines Manila  
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## **MASTER OF SCIENCE AND HEALTH INFORMATICS (MSHI)**

Medical Informatics Track

(offered by UP College of Medicine)

Medical Informatics deals with organization and management of information in support of patient care, education, research and administration. It covers a wide area of the health informatics discipline from the fetus to the geriatric patient. It involves the study of information systems in clinics, laboratories, health centers, hospitals and other health facilities involved in the management of patient data.

The graduates of medical informatics track are expected to be high-level analysts who can perceive various scenarios and analyze them in the context of building systematic information solutions to existing problems. They will have the necessary components of an information system including hardware, software, data, networks, processes and human resource management.

### **OBJECTIVES:**

The proposed training program is designed to provide prospective leaders in Health Informatics with competencies in Health Informatics such that at the end of the program, the students will be able to:

1. apply informatics concepts, skills and principles for the efficient, effective and strategic solution of health problems;
2. provide perspectives in health informatics that can be used in the critical study of all levels of health information systems;
3. plan, undertake, evaluate and monitor health informatics research projects; and
4. provide technical services to health professionals and agencies, both public and private, concerned with management of information. This could be the bases for health policy formulation, thereby providing leadership and excellence in health informatics.

## STUDY PLAN

### Year I

1 <sup>st</sup> semester	2 <sup>nd</sup> semester
HI 201 3	MI 207 2
HI 210 3	MI 224 2
MI 216 2	Elective I 2-3
HI 271 1	Elective II 2-3
<b>Total 9</b>	<b>HI 299 2</b>
	<b>Total 10-12</b>

### Year I (1<sup>st</sup> sem)

#### HI 201 (Health Informatics)

Course description :

Spectrum of health informatics domains in the Philippine healthcare situation

Prerequisite : none Credit : 3 units lecture

#### HI 210 (Systems Analysis and Design in Health)

Course description :

Interactions between the components of a health information system: hardware, software, data, network, and people including the impact of an imbalance among the components of the whole system

Co-requisite : HI 201 Credit : 3 units lecture

#### MI 216 (Data Modeling and Design for Health)

Course description:

Practical course in transforming clinical concepts into actual data models and into databases

Prerequisite : none

Credit : 2 units lecture, 1 unit laboratory

#### HI 271 (Ethical and Social Issues in Health Informatics)

Course description :

Issues in privacy, confidentiality and security of health information.

Prerequisite : none Credit : 1 unit lecture

### Year I (2<sup>nd</sup> sem)

#### MI 207 (Organization and Management in Health Informatics)

Course description :

Management and Leadership in Health Information Systems

Prerequisite : HI 210 Credit : 2 units lecture

#### MI 224 ( Coding, Classification and Terminology in Medicine)

Course description :

Systematic organization of health concepts with focus on existing standards and implementations

Prerequisite : HI 210 Credit : 2 units lecture

#### HI 299 (Research Methods in Health Informatics)

Course description :

Concepts and principles of research in health information management

Prerequisite : HI 201 Credit : 2 units lecture

### Year II

1 <sup>st</sup> semester	2 <sup>nd</sup> semester
MI 227 3	MI 300 6
MI 238 2	
MI 239 2	
Elective III 2-3	
HI 298 1	
<b>Total 10-11</b>	

### Year II (1<sup>st</sup> sem)

#### MI 227 (Clinical and Laboratory Information Systems)

Course description :

Design and development of clinical and laboratory information systems appropriate in the local setting

Prerequisites : HI 210, MI 224 or consent of instructor

Credit : 2 units lecture, 1 unit laboratory

#### MI 238 (Internet Technologies in Medical Practice)

Course description :

Applications of existing and emerging web-based technologies to health

Prerequisite : HI 210

Credit : 1 unit lecture, 1 unit laboratory

#### MI 239 (Primary Health Care Informatics)

Course description :

Issues related to the collection, processing and presentation of data in a community setting

Prerequisite : Consent of instructor

Credit : 2 units lecture

#### HI 298 (Seminar in Health Informatics)

Course description :

Concepts and principles of research in health information management

Prerequisite : HI 201 Credit : 2 units lecture

### Electives/Cognates

#### MI 219 (Datawarehousing in Medicine)

Course description :

Specialized modeling techniques for the development and management of large medical databases

Prerequisite : consent of instructor

Credit : 1 unit lecture, 1 unit laboratory

#### MI 250 (Business Aspects of Medical Informatics)

Course description :

Business models, marketing and management in clinical information systems

Prerequisite : Consent of instructor

Credit : 2 units lecture

#### MI 295 (Special Topic in Medical Informatics)

Prerequisite : Consent of instructor

Credit : 3 units lecture

### Thesis

MI 300 (Master's Thesis)

Credit : 6 units

### ADMISSION REQUIREMENTS

To be admitted to the program, applicants must:

1. Fulfill general admission requirements of the National Graduate Office of UP Manila
2. Applicants must be a health practitioner (MD, RN,DDM, med tech, etc)
3. Have high scholastic ability and potential for postgraduate studies
4. Have the capability for self-directed learning

### Additional requirement for foreign applicants:

1. Affidavit of support or certificate of financial capability
2. TOEFL score of at least 500 (if English is not the medium of instruction in the country of origin)
3. Photocopy of the passport (original) to be presented for verification
4. Student visa to be issued by Philippine government