

## CURRICULUM

### Core Courses | 11 units

HI 201	Health Informatics	3
HI 210	System Analysis and Design	3
HI 271	Ethical, Legal & Social Issues in Health Informatics	1
HI 298	Seminar in Health Informatics	1
HI 299	Research Methods in Health Informatics	3

### Major Courses | 13 units

BNF 201	Fundamentals of Bioinformatics	2
BNF 216	Data Modelling and Design of Bioinformatics	2
BNF 231	Architecture, Dynamics and Structure of Nucleic Acids and Proteins	3
BNF 240	Representations and Algorithms in Bioinformatics	3
BNF 241	Stochastic Models in Bioinformatics	3

### Suggested Electives/Cognates Courses \* | 6-9 units \*\*

MI 219	Data Warehousing in Health Care	2
HI 250	Business Aspects of Health Informatics	2
MI 295	Special Topics in Medical Informatics	3
BNF 260	Bioinformatics in Clinical Practice	2
BNF 295	Special Topics in Bioinformatics	3

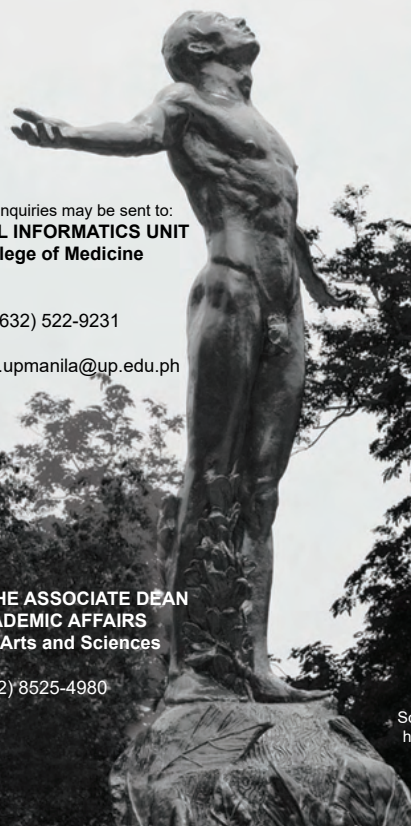
### Thesis

6


**Total Units 36-39**


\* - Or any graduate course offered in any UP unit as approved by the adviser

\*\* - Students may opt to take 2 unit 3 units courses provided that the total number of elective/cognate is 3.



Further inquiries may be sent to:  
**MEDICAL INFORMATICS UNIT**  
College of Medicine

 (632) 522-9231

 miu\_cm.upmanila@up.edu.ph

OFFICE OF THE ASSOCIATE DEAN  
FOR ACADEMIC AFFAIRS  
College of Arts and Sciences

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Scan to visit our website:  
<https://cas.upm.edu.ph/>

COLLEGE OF  
ARTS AND SCIENCES




**MASTER OF SCIENCE IN  
HEALTH INFORMATICS  
(BIOINFORMATICS TRACK)**

### CONTACT US

Application forms may be obtained from and returned to:

**THE DIRECTOR  
NATIONAL GRADUATE OFFICE FOR THE HEALTH SCIENCES**

 (632) 88141 247  
(632) 88141 248

 National Graduate Office  
for the Health Sciences

 upm-ngohs@up.edu.ph

 [ngohs.upm.edu.ph](https://ngohs.upm.edu.ph)



Scan to visit NGOHS website

S. 2023





## PROGRAM DESCRIPTION

The MS Health Informatics (Bioinformatics) is intended to prepare health professionals, scientists, educators, policy makers in the health information management appropriate to the Philippine setting.

Bioinformatics, generally speaking, is the creation and development of advanced information and computational technologies for problems in molecular biology.

It also aims to meet the fast-growing international demand of industries such as pharmaceuticals and biotechnology for competent staff that are skilled in both molecular biology and information technology.

## PROGRAM OBJECTIVES

The 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 solution of health informatics 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 for both public and private sectors concerned with management of information which could be the bases for health policy formulation, thereby providing leadership and excellence in health informatics.

## ACADEMIC INFORMATION

### Schedule of Semesters:

1st Semester: August to December  
2nd Semester: January to May  
Midyear: June and July (6 weeks)

### Number of Units:

Full-time: 9-12 units/semester  
Part-time: 1-8 units/semester  
Midyear: 1-6 units

### Fees:

Tuition Fee: P990.00/unit  
Library Fee: P1,050.00  
Other Fees: P350.00/semester  
Processing Fee: P300.00

### Additional Fees for Foreign Applicants:

Processing Fee: US\$ 30.00  
Educational Development Fund: US\$ 500.00  
(US\$100.00 for residency only)/semester

### Submission of Applications:

1st Semester: February until the last working day of April  
2nd Semester: To be announced if offered

### The following are the grade requirements for each student to be of good standing in the program:

- 1) General weighted average of 2.00 or better;
  - 2) Weighted average of 2.00 or better for the major/required courses; and
  - 3) No grade of 5.00 in any academic course.
- \*\*A maximum of 5 years is given to a student to finish the program.**

*Living accommodations for students may be provided in privately-owned housing units/dorms/apartment hotels. Dorms offer lodging and/or board. There are privately-owned eateries around the school.*



SCAN TO DOWNLOAD APPLICATION



### The following are the minimum NGOHS requirements:

1. Have at least a baccalaureate degree in the sciences with
  - a) Basic training in biochemistry or molecular biology. Otherwise, prospective students may opt to take the undergraduate equivalent (Chem 32 or Chem 40/Biochem 14)
  - b) A passing mark in a validating examination in Computer Programming and Data Structures. Prospective students however, may opt to take its undergraduate equivalent (CS 11 & CS 123 or CS110) in BS Computer Science Program of UP Manila.
2. Good scholastic record from any recognized institution of higher learning.
3. At least 1-year of work experience in the related field.
4. Duly accomplished Application Form (downloadable through the NGOHS website: [ngohs.upm.edu.ph](http://ngohs.upm.edu.ph))
5. Comply with the General requirements found on the 2nd page of the Application Form (UPM-NGS-OP-01F1)

### Graduation Requirements:

- Residency of at least one full academic year prior to granting of degree.
- Completion of 36 units (11 units of core courses, 13 units of core courses, 3 units of major, and 3 electives courses (6-9 units))
- A general weighted average of 2.00 or better.
- Satisfactory completion and submission of the required hard bound copies of thesis, and electronic copy of manuscript.
- Certificate of submission of paper for Publication.