

COURSE DESCRIPTION

Micro 201 Public Health Microbiology. The biology of patho-genic microbes (bacteria, rickettsiae, viruses and fungi); prin-ciples of parasitism; host-microbe interactions.

Micro 202 Immunology. Immunochemical study of antigens, immunologic mediators and methods of investigating immune responses.

Micro 203 Applied Bacteriology. Laboratory methods employed in the diagnosis of bacterial diseases.

Micro 205 Virology. Physico-chemical properties and molecular biology of animal viruses including bacteriophages.

Micro 206 Medical Mycology. The morphological, cultural and other characteristics of fungi pathogenic to man.

Micro 207 Microbial Physiology. Growth, metabolism, muta-tion and enzyme activities of bacteria and fungi.

Micro 208 Immunology of Microbial Infections. Immunologic principles applied to specific problems in microbial diseases.

Micro 209 Applied Virology. Advanced techniques in virology and tissue culture.

Micro 210 Microbial Zoonoses. Biology and immunology of se-lected bacterial, viral and fungal zoonoses.

Micro 211 Preparation of Vaccines and Immune Serum. Pro-duction and standardization of selected vaccines and immune serum.

Micro 212 Microbial Pathogens in Water and Food. Isolation and identification of microbial pathogens in water and food.

Micro 214 Advanced Mycology. Biotechnological methods used in research and development of health products and diagnostic reagents in medical mycology.

Biostat 201 Fundamentals of Biostatistics I. Collection, presenta-tion and elementary analysis of data.

Biostat 202 Fundamentals of Biostatistics II. Further treatment of frequency distributions and sampling variation; least squares, correlation, linear and curvilinear regression.

Biostat 206 Research Methods I. Principles of field investigation; sampling methods in the study of health problems of human populations.

Epi 201 Principles of Epidemiology. Ecology of human diseases and epidemiologic methods.

OH 201 Principles and Methods of Occupational Health. The place and scope of preventive medicine in industry; the relation-ship of occupation to disease and the place of physiological hy-giene in public health.

COURSE DESCRIPTION

OH 203 Industrial Toxicology. Entry, action and elimination or de-toxification of toxic substances. Design of toxicity experiments, dose and effect relationships.

OH 208 Occupational Diseases. Clinical manifestations, differential diagnosis, prevention and treatment.

PH 201 Man, Health and the Environment I. The dynamic interrela-tionships between man and the environment as these affect health
Para 204 Medical Entomology. Arthropods of medical and public health importance in the Philippines

FACULTY PROFILE

Professor Emeritus
Veronica F. Chan, PhD

Professor
Nina G. Gloriani, MD, PhD
Teresita S. de Guzman, MSPH

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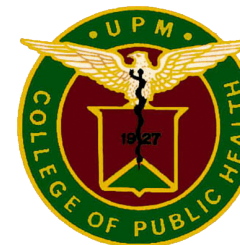
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College of Public Health

University of the Philippines Manila
The Health Sciences Center

Master of Science in Public Health (Medical Microbiology)



SEAMEO-TROPMED
Regional Centre for Public Health,
Hospital Administration,
Environmental and Occupational Health

RATIONALE AND OBJECTIVES

Microbiology has been and will continue to be one of the mainstays in the creation of opportunities for human progress and for the promotion of new knowledge to enhance the quality of life. It has numerous applications in health and disease and in the development of new technologies in the various fields of microbiology like food and industrial microbiology, immunology, medical mycology, diagnostic microbiology, etc.

The MSPH (Medical Microbiology) program is intended to prepare students and professionals for various careers and opportunities in the different fields of microbiology. Candidates are free to choose any of the available areas of specialization in Microbiology (Bacteriology, Virology, and Mycology)

At the end of the MSPH (Medical Microbiology) program the student should be able to:

- acquire a good working knowledge on the principles and methods of Bacteriology, Virology, Mycology, and Immunology;
- plan, set up and manage a microbiology laboratory;
- conduct research projects related to any of the various areas of microbiology;
- apply the principles of microbiology and immunology in the promotion and maintenance of health and in the prevention, treatment and control of communicable diseases.

GENERAL INFORMATION

- The academic year is divided into 2 semesters of 16 weeks each and a 6 week summer session. Each semester is further divided into two quarters of approximately 8 week each.
 - First semester : August - December
 - Second semester: January - May
 - Summer: June - July
- The medium of instruction is English
- The usual academic load of full - time students is 12 - 15 units
- The tuition fee is P 990.00 per unit and the miscellaneous fees amount to approximately P 1,365 per semester
- International students must pay an Educational Development Fund of US \$ 500.00 (or US \$ 100.00 for residency) per semester.
- Application Fee : P300.00 for Filipinos
US \$ 30.00 for international students

*Fees subject to change without prior notice

ADMISSION REQUIREMENTS

1. Must fulfill the general admission requirements of the National Graduate Office of UP Manila
2. Good scholastic record from any recognized institution of higher learning.
3. Must be graduates of approved schools of medicine and/or allied professions or have at least a baccalaureate degree in the biological sciences.
4. A student without a bachelor's degree but whose undergraduate preparation is substantially equivalent to the requirements of a bachelor's degree in the University of the Philippines may be admitted upon written recommendation of the Program Committee and approval of the Dean, duly recorded by the University Registrar.
5. Approval of the applicant's qualification for graduate work by the faculty of the Department and the Academic Program Committee concerned.

GRADUATION REQUIREMENTS

1. Residence of at least one full academic year immediately prior to granting of the degree;
2. Completion of a minimum of 40 units of formal courses (8 units of core courses, 16 units of major courses, 6 units of minor courses, 4 units of cognates and 6 units of thesis);
3. General weighted average of "2.00" or better in the major courses and in all courses taken provided there is no grade of "5.0" in any subject;
4. Satisfactory defense, completion and submission of bound copies of a masters' thesis
5. Passing the comprehensive examination

RESIDENCE REQUIREMENTS & TIME LIMIT

- minimum residence required : two(2) semesters and one(1) summer
- maximum residence rule (MRR) : 5 calendar years including official leaves of absence
- If the MRR is exceeded, further extension of not more than 1 year shall be allowed subject to the recommendation of the MSPH Program Committee and approval of the Chancellor

THE CURRICULUM

Core Courses		8	Units
Biostat 201	Fundamentals of Biostatistics I		3
Epi 201	Principles of Epidemiology		3
Biostat 206	Research Method I		2
Major Courses		16	
<i>For all tracks</i>			
Micro 202	Immunology		3
Micro 203	Applied Bacteriology		2
Micro 205	Virology		2
Micro 206	Medical Microbiology		2
Micro 207	Microbial Physiology		3
Micro 208	Immunology of Microbial Infections		2
Micro 297.1	Seminars in Microbiology		1
Micro 297.2	Seminars in Microbiology		1
Minor Courses		6	
<i>Bacteriology</i>			
Micro 210	Microbial Zoonoses		2
Micro 212	Microbial Pathogens in Water and Food		2
Micro 299	Special Studies and Research		2
<i>Mycology</i>			
Micro 210	Microbial Zoonoses		2
Micro 214	Advanced Mycology		2
Micro 299	Special Studies and Research		2
<i>Virology</i>			
Micro 209	Applied Virology		2
Micro 211	Preparation of Vaccines and Immune Serum		2
Micro 299	Special Studies and Research		2
Cognate Courses		4	
Biostat 202	Fundamentals of Biostatistics II		2
Para 204	Medical Entomology		2
Para 207	Immunology of Parasitic Infections		2
OH 201	Principles and Methods of Occupational Health		2
OH 203	Industrial Toxicology		2
OH 208	Occupational Diseases		2
Thesis		6	
Micro 300	Masters' Thesis		6
		TOTAL	40 units