| CURRICULUM |

	Core Courses | 20 units	
Physio 202	Physiology for Graduate Students	6
Physio 203	Neuroscience for Graduate Students	3
Physio 204	Correlative Physiology	2
Physio 205	General Techniques in Physiology	2
Phsyio 211	Advanced Physiology	3
Physio 298	Special Problems in Physiology	2
Bio 202	Fundamentals of Biostatistics II	2
	Electives | 10 units	
Physio 206	Special Techniques in Physiology (select from 206.1 to 206.6)	2
Physio 207	Developmental Physiology	2
Physio 208	Comparative Physiology	2
Physio 296	Directed Readings in Physiology	2
Physio 297	Seminars in Physiology	2
Biochem 201.2	General Biochemistry for Graduate Students	4
Biochem 221	Nucleotide and Nucleic Acids	3
Biochem 222	Proteins, Lipids and Carbohydrates	3
Biostat 207	Non-Parametric Procedures in Biometric Research	2
Biostat 209	Experimental Designs	2
HP 201	Learning and Teaching	2
HP 211	Curriculum Planning	2
HP 221	Instructional Design	3
HP 231	Evaluation in Health Professions Education	3
HP 232	Test Construction	2
HP 241	Practicum	2

DIPLOMA IN PHYSIOLOGY

The certificate will be awarded upon completion of at least fourteen (14) units of formal courses. The candidate must obtain an average of 2.00 or better in all physiology subjects and must finish the program within 3 years. The required courses include:

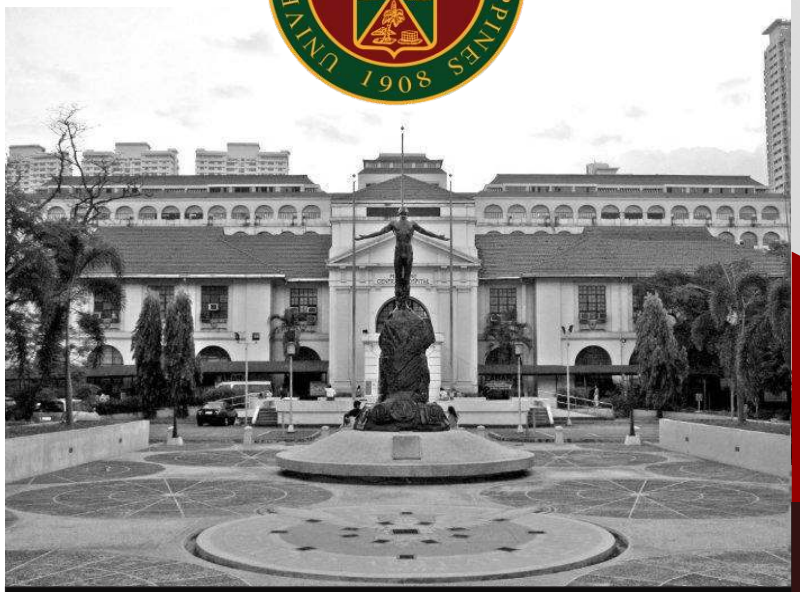
Physio 202	Physiology for Graduate Students	6 units
Physio 203	Neuroscience for Graduate Students	2 units
Physio 204	Correlative Physiology	2 units
Physio 205	General Techniques in Physiology	2 units
Physio 206	Special Techniques in Physiology (select from 206.1 to 206.6)	2 units

DESCRIPTION OF COURSES

Physio 202 Physiology for Graduate Students
Fundamental concepts of physiology in the cardiovascular, pulmonary, gastrointestinal and endocrine systems.
Physio 203 Neuroscience for Graduate Students
Essential principles of Neurophysiology correlated with Neuroanatomy
Physio 204 Correlative Physiology
Integrated analysis of human physiological mechanisms
Physio 205 General Techniques in Physiology
The theory and practice of basic laboratory methods and techniques needed for teaching undergraduate physiology.
Physio 206 Special Techniques in Physiology
Theory and practice of special laboratory methods and techniques necessary for higher level research in physiology.
Physio 207 Developmental Physiology
Reading and discussion on different aspects of developmental physiology including fetal and neonatal physiology, physiology of puberty, pregnancy, climacterium and aging.
Physio 208 Comparative Physiology
The Physiology of lower animals compared to man.
Physio 211 Advanced Physiology
Theoretical and experimental analysis of physiological concepts.
Physio 296 Directed Readings in Physiology
Reading and discussion of recent articles.
Physio 297.1 AND Physio 297.2 Seminars in Physiology
A specific research project undertaken with focus on a particular system to include experimental procedure, statistical analysis and discussion of results.
Physio 298 Special Problems in Physiology
A specific research project undertaken with focus on a particular system to include experimental procedure, statistical analysis and discussion of results.

Physio 298.1 Special Problems in Cardiovascular Physiology
Specific problems in the cardiovascular system.
Physio 298.2 Special Problems in Endocrine Physiology
Specific problems in the endocrine system.
Physio 298.3 Special Problems in Gastrointestinal Physiology
Specific problems in the gastrointestinal system
Physio 298.4 Special Problems in Neurophysiology
Specific problems in the nervous system.
Physio 298.5 Special Problems in Renal Physiology
Specific problems in renal and body fluids physiology.
Physio 298.6 Special Problems in Pulmonary Physiology
Specific problems in the pulmonary system.

Further inquiries may be sent to:
The DEPARTMENT OF PHYSIOLOGY
College of Medicine
Tel nos: 526-4262
E-mail : physiology.upcm@yahoo.com



CONTACT US

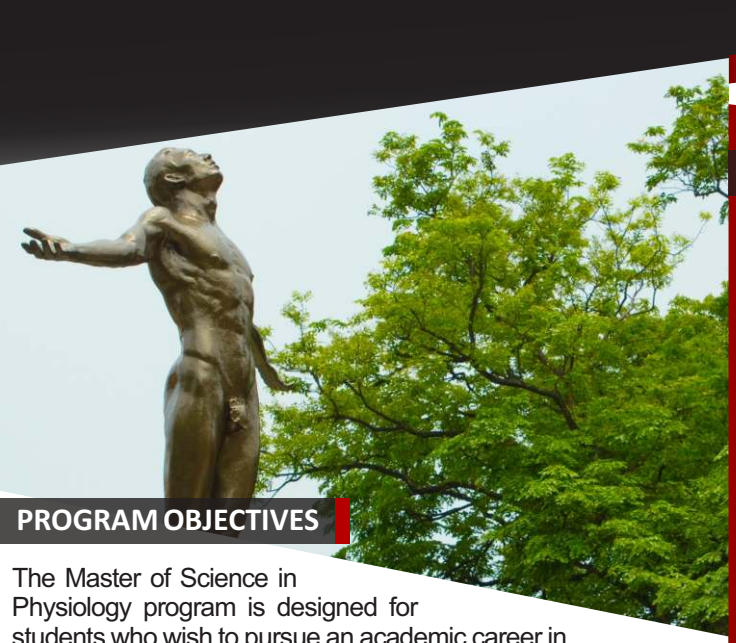
Application forms may be obtained from and returned to:
THE DIRECTOR
NATIONAL GRADUATE OFFICE FOR THE HEALTH SCIENCES

(632) 526-5870, 523-1495
(632) 523-1498
ngohs.upm.edu.ph
ngohs@post.upm.edu.ph
ngohs@post.upm.edu.ph

NATIONAL GRADUATE OFFICE FOR THE HEALTH SCIENCES

MASTER OF SCIENCE IN PHYSIOLOGY

A PROGRAM OFFERING OF THE COLLEGE OF MEDICINE UNIVERSITY OF THE PHILIPPINES MANILA



PROGRAM OBJECTIVES

The Master of Science in Physiology program is designed for students who wish to pursue an academic career in Physiology. It is intended also for health professionals engaged in either clinical practice or in the teaching profession, who would like to strengthen their mastery of the principles of Physiology. because the curriculum is enriched with hand-on experimental course, it also provides the prospective researcher with a variety of models for future research in the discipline. The program can also be fine-tuned to serve the needs of non-health professionals, such as engineers, physicists and computer scientists, who may wish to find their niche in the biomedical sciences.

ACADEMIC INFORMATION

The academic year is divided into 2 semesters of 16 weeks each, excluding registration and final examination periods. The 1st semester starts in August and ends in December, while the 2nd semester covers the period from January to May, with a two-week Christmas vacation in December. English is generally used as the medium of instruction. A full time student's normal load is 10-15 units and a part-time student enrolls in half of these. The tuition fee is P990.00 per unit with the miscellaneous and other fees of P1,900.00 per semester. A student with a load of 15 units in a semester matriculates P16,750.00 on the average while a foreign student pays an additional Educational Development Fund of US $ 500.00 (US $100.00 for residency only) for every semester.

There is a processing fee of P300.00 for Filipino applicants while interested foreigners are charged US$ 30.00. The deadline for submission of application is every end April of each year.

The program requires the candidate to complete and pass 30 units of formal courses, a comprehensive examination and 6 units of research. 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

ADMISSION REQUIREMENTS

The following are the minimum NGOHS requirements:

1. Good scholastic record from any recognized institution of higher learning.
2. Preferably with a background in Chemistry, Mathematics, Biology, and Physics
3. Duly accomplished Application Form (available at the Graduate Office of through www.ngohs.upm.edu.ph) together with the following documents:
    * original copy of the official Transcript of Records
    * 2 recommendations from former professors, supervisors or employers (forms included in the application packet)
    * receipt of processing fee paid at the UPM Cashier's Office
    * certified true copy of college diploma with the seal of the university and the signature of the registrar in ink
    * 4 passport-size photos
    * photocopy of birth certificate and marriage certificate for married female applicant only (NSO paper)
    * resume or curriculum vitae
    * essay on an 8-1/2" x 11" sheet of paper describing your motivation for pursuing graduate study and your view of self-directed learning as a method of instruction, and a description of your research interest
4. For foreign applicants, additional requirements include:
    * original Transcript of Records in English. If written in another language, must be translated to English and authenticated by the Philippine consulate/embassy from country of origin
    * certified true copy of diploma with the seal of the university and the signature of the registrar in ink. If written in another language, must be translated to English and authenticated by the Philippine consulate/embassy from country of origin
    * Official TOEFL score of at least 550 (written test) or 173 (computerized test); 61 (internet based) or other Certification of English proficiency equivalent to TOEFL (e.g. IELTS (band 6); a certificate that English is the medium of instruction in the university where the student has graduated from is sufficient to waive this requirement
    * affidavit of support or certification of financial capability
    * photocopy of passport (present original for verification)

GRADUATION REQUIREMENTS

- Completion of 30 units of formal courses, 6 units of research
- Passing a comprehensive examination
- Satisfactory completion and submission of 6 bound copies of thesis
- A GWA of 2.00 or better in major courses and in all courses taken, provided there is no grade of 5.00 in any of these