

| CURRICULUM |

Core Courses 10 units		
Biochem 201.2	General Biochemistry (Lecture)	4
Biochem 201.3	General Biochemistry (Laboratory)	2
Biochem 205	Special Laboratory Techniques	1
Biochem 221	Nucleic Acids and Nucleotides	3
Biochem 222	Proteins, Carbohydrates and Lipids	3
Biochem 224	Physical Biochemistry	3
Biochem 297	Seminars in Biochemical Literature	2
Biochem 400	Dissertation	15
Total		33

Minor Courses		
Biochem 206	Methods on Vitamin Analysis	1
Biochem 210	Biochemical Basis of Genetics	1
Biochem 226	Biochemical Catalysis	3
Biochem 228	Metabolism and Its Regulation	3
Biochem 230	Nutritional Biochemistry	2
Biochem 235	Biochemical Basis of Some Clinical Problems	3
Biochem 240	Advances in Biochemistry	1
Biochem 310	Biochemical Genetics	3
Biochem 315	Lipids	2
Biochem 320	Carbohydrates	2
Biochem 325	Proteins	2
Biochem 330	Advances in Nutritional Biochemistry	2
Biochem 335	Inorganic Biochemistry	3
Biochem 340	Bio-Organic Chemistry	3
Biochem 345	Physical Biochemistry of Macromolecules	3
Biochem 397	Research Seminar	1
Biochem 350	Industrial Biochemistry	3

Thesis
Phar 300

6 units

Total 32 units or more

Further inquiries may be sent to:
**DEPARTMENT OF BIOCHEMISTRY AND
MOLECULAR BIOLOGY**
College of Medicine
Tel nos: 526-4197
E-mail: dbmb.upcm@gmail.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

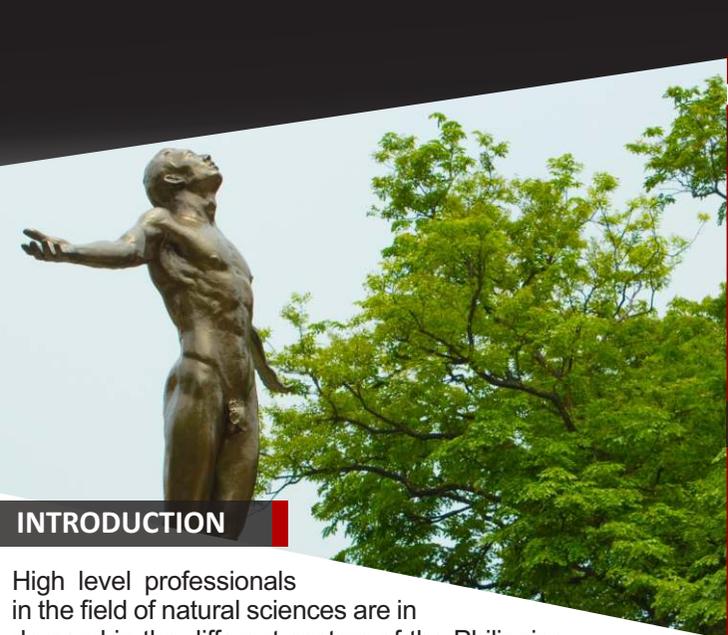


**NATIONAL GRADUATE OFFICE
FOR THE HEALTH SCIENCES**



PHD IN BIOCHEMISTRY

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



INTRODUCTION

High level professionals in the field of natural sciences are in demand in the different sectors of the Philippine society with an estimated requirement of at least 200 PhD's per 1M population to be at par with Asian leading economies (UNESCO 1992 benchmark). In 2003, only 12 PhDs in science were produced in the entire country— a meager turnout of experts that would be key players in knowledge generation and transfer. The advancement and revolution in molecular science ushered an exciting era to the various fields of the basic and the applied sciences like agriculture, fisheries and biomedicine as well as education.

Thus, the growing need of highly trained technical manpower drives the offering of the revitalized PhD in Biochemistry program by the Department of Biochemistry and Molecular Biology of the College of Medicine, University of the Philippines Manila.

Presently, the program highlights a complement of Faculty experts coming from diverse fields of interest and offers a comprehensive field of study for incoming graduate students. The basic curriculum has been widened in scope to integrate advancements in the field of bio computation and molecular techniques. Moreover, the department provides a special setting for students to learn biochemistry, molecular biology, cell biology, biophysical chemistry and genetics in a way these can be utilized to address current and emerging challenges to health.

OBJECTIVES

The Ph.D. in Biochemistry program is intended to encourage the development of Biochemistry in the Philippines through the production of highly trained biochemists whose research works contribute to the development of new knowledge.

REQUIREMENTS

An applicant for admission must have an M.S. degree in Biochemistry or Chemistry or its equivalent from an accredited institution. Bachelor of Science graduates with exceptional performance in the first two semesters of their Masters of Science program may be considered for a straight Ph.D. program after evaluation by the Department Graduate Committee.

COURSE REQUIREMENTS

The student with an M.S. degree in Biochemistry or Chemistry or its equivalent must complete at least 27 units of graduate courses in the Ph.D. program plus 15 units of Dissertation. Out of the 27 units, 9 units may be taken from other graduate courses in related areas that are offered outside the department.

B.S. graduates must complete at least 45 units of graduate courses. Twelve units of cognate may be taken.

COURSE REQUIREMENTS

Upon completion of the required course work, the student will take a comprehensive exam to be administered by the Program Committee. Passing the comprehensive examination to be administered by the Program Committee. Passing the comprehensive exam advances the student to candidacy for the degree.

DISSERTATION

The student will choose a research topic that is original, independent and a worthwhile contribution to the discipline. He will carry out his dissertation research under the guidance of committee. Successful defense of a completed dissertation research in an oral examination recommends the student to conferment of a degree.



ADMISSION REQUIREMENTS

The following are the minimum NGOHS requirements:

1. Good scholastic record from any recognized institution of higher learning
2. A master of science degree preferably those who have taken courses in chemistry, biology, physics and mathematics.
3. 1-2 years' work experience in related field
4. Duly accomplished Application Form (available at the Graduate Office or through ngohs.upm.edu.ph) together with the following documents:
 - * letter of application
 - * original copy of the official Transcript of Records
 - * three (3) letter of recommendations from former professors and or scientists in the discipline
 - * 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)
 - * 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
5. For foreign applicants, additional requirements include:
 - * original Transcript of Records in English. If written in another language, must be 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 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)

