

CURRICULUM

Core Courses 7-8 units		
Biochem 201.2	General Biochemistry	4
Biochem 201.3	Introduction to General Biochemical Laboratory Techniques	2
Biochem 297	Seminars in Biochemical Literature	2
Required/Eelctive Courses 9-10 units		
Biochem 204	Chemical Concepts in Biological Systems	1
Biochem 205	Special Laboratory Techniques	1
Biochem 206	Methods of Vitamin Analysis	1
Biochem 210	Biochemical Basis of Genetics	1
Biochem 221	Nucleotides and Nucleic Acids	3
Biochem 222	Proteins, Lipids and Carbohydrates	3
Biochem 224	Physical Biochemistry	3
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 340	Advances in Biochemistry	1
Biochem 280	Teaching Practicum in Biochemistry	1
Cognate		6
Thesis		6

Total units 28-30

CERTIFICATE PROGRAM IN BIOCHEMISTRY

The objective of the certificate program is to provide training for qualified people who are interested in a teaching career in Biochemistry.

REQUIREMENTS

This program is open to holder of degrees of Doctor of Medicine, Doctor of Dental Medicine and professionals in related fields who are teaching Biochemistry.

COURSE WORK

The Certificate of Biochemistry will be awarded upon completion of 14 units of formal courses (6 units of which are core courses) and 1 unit of teaching practicum in Biochemistry. The candidate must obtain a weighted average grade of 2.0 or better. The following are the core courses:

Biochem 201.2	General Biochemistry (Lecture)	4
Biochem 297	Seminars in Biochemical Literature	2

Total units 6



Further inquiries may be sent to:
**DEPARTMENT OF BIOCHEMISTRY
 AND MOLECULAR BIOLOGY**
 College of Medicine



(632) 526-4197



dbmb.upcm@gmail.com



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

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



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S. 2023

COLLEGE OF
MEDICINE



**MASTER OF SCIENCE IN
 IN BIOCHEMISTRY**



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.



PROGRAM DESCRIPTION

The department graduate program was established in 1973 with the institution of the MS in Biochemistry. The certificate (Diploma) in Biochemistry was offered in 1983 while the PhD in Biochemistry was instituted in 1984. The goal of the department graduate program is to provide responsive and responsible leadership and excellence in education, training, research and community services in the fields of biochemistry and molecular biology, and to contribute towards the revitalization of the country's economy through the development and application of appropriate biotechnology.

Master of Science in Biochemistry Course work of 30 units of formal courses: 18 units of major/elective courses, 6 units of cognate courses and 6 units for thesis. A minimum of 18 units should be taken in the department. Cognates, which may be related to the thesis topic, may be taken from the department or outside provided it is within the UP System and carried a description implying a biochemical treatment of the subject.

PROGRAM OBJECTIVES

The objective of the program is to provide with an in-depth knowledge of biochemistry and to cultivate the proper attitudes and adequate skills for tertiary teaching, advanced research and specialty service.



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ADMISSION REQUIREMENTS CHECKLIST

The following are the minimum NGOHS requirements:

1. Good scholastic record from any recognized institution of higher learning
 *prerequisite include completion of undergraduate courses in biology, chemistry, psychology or related courses.
2. Entrance Interview
3. Duly accomplished Application Form (downloadable through the NGOHS website: ngohs.upm.edu.ph)
4. Comply with the General requirements found on the 2nd page of the Application Form (UPM-NGS-OP-01F1)

Additional Requirements of the College of Medicine:

Applications must be a health practitioner with:

- Basic training in biochemistry or molecular biology. Otherwise, prospective students may opt to take the undergraduate equivalent (Chem 32 or Chem 40/ Biochem 14)
- 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) in the BS Computer Science Program of UP Manila.
- Basic training in Epidemiology or Biostatistics or equivalent.

Graduation Requirements:

- Residency of at least one full academic year prior to granting of degree.
- Completion of 30 units of course work.
- Successful oral and written presentation of master's thesis.
- Submission of 3 hard bound copies of the thesis.
- GWA of 2.00 or better in major courses and in all courses taken.