

Faculty

GLAEZEL ANGELIQUE T. BARREDO, PhD
Industrial Microbiology

VERNANS V. BAUTISTA, PhD
Microbial Systematics

ANGELLA MELISSA A. CARLOS, MSc
Food Microbiology and Dairy Microbiology

JAYMEE R. ENCABO, MSc
Virology

RENARD M. JAMORA, DrPH
Medical Microbiology

NACITA B. LANTICAN, PhD
Industrial Microbiology

WALTER A. LAVIÑA, PhD
Microbial Genetics

BERNADETTE C. MENDOZA, DrPH
Medical Microbiology

ANDREW D. MONTECILLO, MSc
Microbial Genomics

MICHAEL JOSEPH M. NAGPALA, MSc
Food Microbiology

KRISTEL MAE P. OLIVEROS, MSc
Microbial Systematics

JOHN DANIEL P. ONG, MSc
Microbial Ecology and Microbial Genetics

RINA B. OPULENCIA, PhD
Microbial Physiology and Microbial Genetics

MARIAN JEAN T. PANGANIBAN, MSc
Microbial Genetics

DOMINI THERESA M. PECUNDO, MSc
Food Microbiology

NOEL G. SABINO, PhD
Microbial Ecology

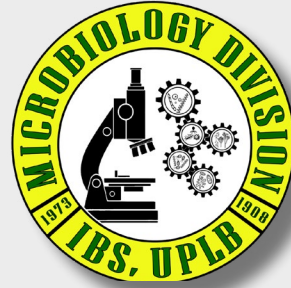
LUCILLE C. VILLEGAS, PhD
Microbial Genetics and Virology

Professor Emeriti:

DR. IDA F. DALMACIO, PhD
Food Microbiology and Microbial Toxins

DR. ASUNCION K. RAYMUNDO, PhD
Microbial Genetics and Bacteriology

Contact Us



MICROBIOLOGY DIVISION

Rm D-333, 3rd Floor, L.B. Uichanco Hall
University of the Philippines Los Banos,
College, Laguna
4031 PHILIPPINES

Phone: (049) 536 3368

Email: mcbd.uplb@up.edu.ph

Website: <https://ibs.cas.uplb.edu.ph/>
<https://www.facebook.com/mcbd.uplb>



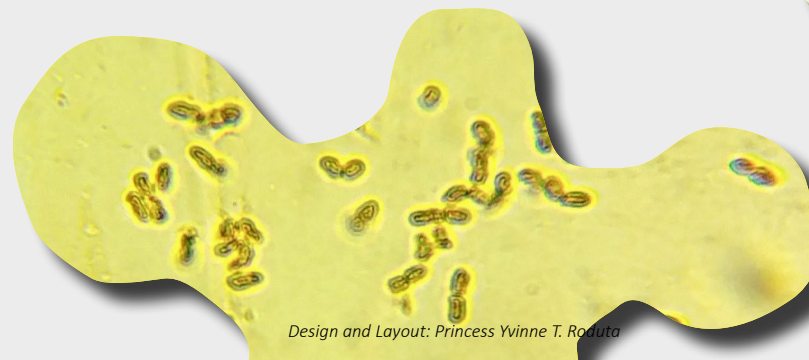
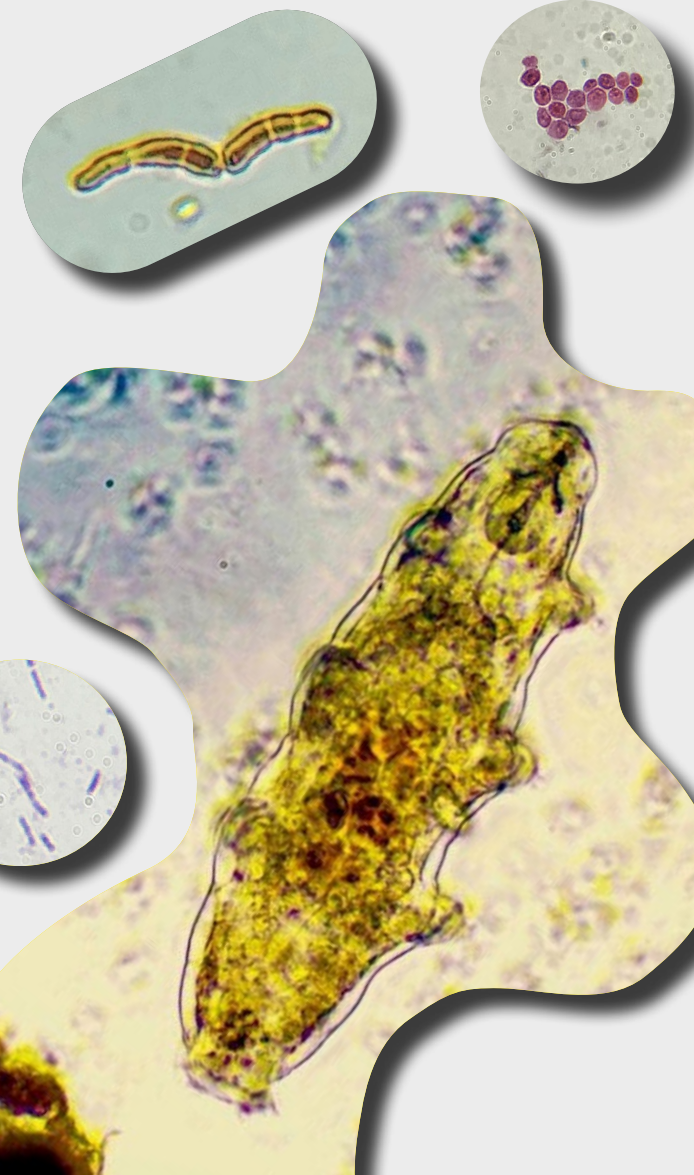
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University of the Philippines Los Baños
Institute of Biological Sciences

BS BIOLOGY MAJOR IN MICROBIOLOGY

MICROBIOLOGY DIVISION, IBS, CAS





About Microbiology Major

Microbiology as a major field aims to produce graduates with a strong academic and practical background in biology, evolution, and various applications of microorganisms, as well as microbialecologyandenvironmentalmicrobiology concepts, and molecular microbiology techniques. We employ an integrated approach in our program of study that allows our students to pursue specialized interests and students are taught and supervised by experts in a particular research field. Our students gain a breadth and depth of understanding of microbiology from the molecular to the cellular levels of organization, as well as the interactions of microbes — beneficial and pathogenic — with other organisms, and up to the level of the microbial community. Embedded in our courses are theories, best practices, a set of skills, and discipline that prepare our graduates to become successful in their future careers.

Our graduates are eligible to take the Philippine Academy of Microbiology (PAM) Accreditation Examination for Registered Microbiologists. Microbiology major graduates may pursue a career in the local and international food and pharmaceutical industries, as research and administration professionals in various government and non-government institutions, and teaching positions in the academe. Many of our graduates also pursue a degree in medicine and graduate and postgraduate degrees in allied fields.

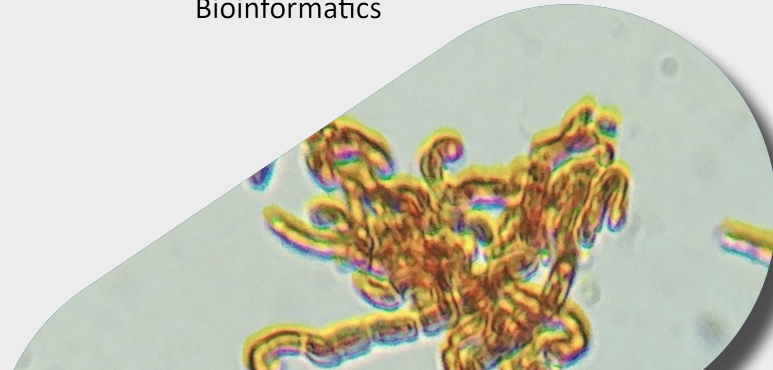
Courses Offered

All Microbiology major students are required to take Practicum, Thesis, and the following courses:

- MCB 101.** Microbial Identification Techniques
- MCB 102.** General Virology
- MCB 120.** Microbial Physiology
- MCB 130.** Microbial Genetics
- MCB 150.** Microbial Ecology
- PPTH 104.** General Mycology

Microbiology majors must also take 5-11 units of any of the following major courses:

- MCB 103.** Introductory Medical Microbiology
- MCB 182.** Industrial Microbiology
- MCB 182.1.** Industrial Microbiology Laboratory
- MCB 180.** Introductory Food Microbiology
- MCB 181.** Dairy Microbiology
- BIO 130a.** Intermediate Genetics
- BIO 138.** Molecular Genetics
- BOT 101.** Phycology
- FST 166.** Food Hygiene and Sanitation
- PPTH 103.** Introductory Phytobacteriology
- PPTH 115.** Introductory Plant Virology
- VMCB 122.** Veterinary Bacteriology and Mycology
- VMCB 123.** Veterinary Virology
- VMCB 124.** Fundamentals of Immunology
- VPH 121.** Epidemiology
- BIO 125.** Principles of Cell and Molecular Biology Techniques
- BIO 134.** Introduction to Genomics and Bioinformatics



Microbiology Major Application

- Students must have earned at least 70 units of coursework
- Attend major application orientation organized by IBS Registration Committee at the time of application
- Submit copy of grades with application form indicating preferred adviser to be evaluated by the IBS Registration Committee
- Meet with assigned adviser for the Plan of Study (POS)

