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Animal Developmental Genetics

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Cytogenetics

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Molecular/ Biochemical Genetics

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Computational Biology/Bioinformatics

DIANA ROSE R. GONZALES
Evolutionary Genetics

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Molecular Cell Biology, Omics

APRILL P. MANALANG
Computational Biology/Bioinformatics

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GENETICS AND MOLECULAR BIOLOGY DIVISION

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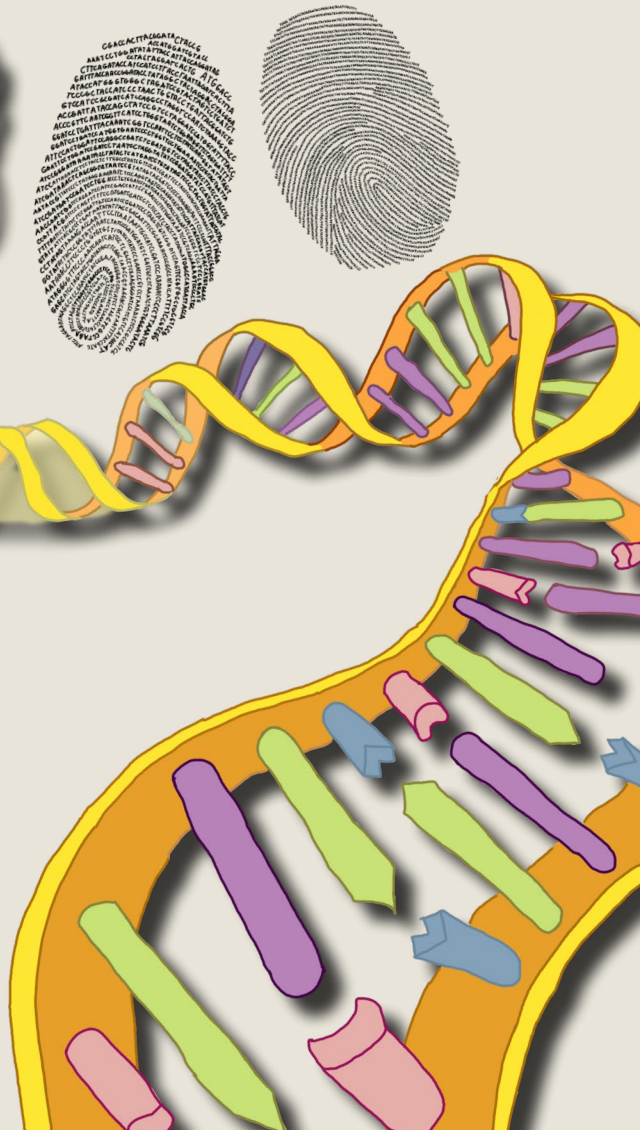
University of the Philippines Los Baños
Institute of Biological Sciences

BS BIOLOGY MAJOR IN

GENETICS

GENETICS AND MOLECULAR BIOLOGY DIVISION, IBS, CAS



About Genetics Major

Genetics as a major field is designed to enhance the ability of students to understand and apply the principles of the science of heredity and variation. It is an exciting field of biology which seeks to answer questions about the nature and behavior of the genetic material as expressed in the development of individuals and in the population. With this, students will be able to explain chromosomal and molecular bases of biological phenomena, verify evolutionary relationships between and among species, and elucidate the interactions of molecules in relation to heredity.

Graduates with major in Genetics will have various career choices such as teaching, research positions in the government and private sector, technical supporters in institutions involved in biodiversity studies and conservation, molecular phylogeny, medical and forensic fields, etc.

Courses Offered

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

BIO 130a. Intermediate Genetics I
BIO 130b. Intermediate Genetics II
BIO 131. Cytogenetics
BIO 134. Introduction to Genomics & Bioinformatics
BIO 138. Molecular Genetics

Genetics majors must also take a minimum of 9-15 units of any of the following major courses:

ABT 104. Experimental Techniques in Agricultural Biotechnology II
ABT 106. Molecular Markers
ABT 107. Recombinant DNA Technology
CRSC 105. Principles of Plant Breeding
AGR 150. Methods in Plant Breeding I
AGR 160. Plant Genetic Resources Conservation and Management
ANSC 103. Principles of Animal Breeding
ANSC 161. Methods in Animal Breeding
BIO 125. Principles of Cell and Molecular Biology Techniques
BIO/ENT 137. Insect Genetics
BIO 139. Human Genetics
BOT 20. Fundamentals of Plant Physiology
BOT/HORT 132. Plant Growth
HORT 133. Plant Tissue Culture
CHEM 162. Plant Biochemistry
MCB 102. General Virology
MCB 103. Introductory Medical Microbiology
MCB 120. Microbial Physiology
MCB 130. Microbial Genetics

Genetics Major Application

- Students must have earned at least 70 units of coursework
- Attend the major application orientation organized by the 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).