

# Medical Biology track

The four-year Bachelor of Science in Biology (BS BIO) curriculum major in Medical Biology (MB) is designed to broaden the students' knowledge and skills in the biological sciences enabling them to qualify for a course in Medical Science or Doctor of Medicine. The BS BIO-MB track provides a foundation in Biology at the molecular, cellular, tissue, organ and organismal level. This track applies multidisciplinary methods to understanding the human organism as a whole with particular emphasis in the following fields; Medical Parasitology, Pharmacology, Medical Microbiology, Medical Entomology, Radiation Biology and Pathophysiology.

The program also prepares a career in biomedical research, biotechnology, human medicine and other allied health professions. A practicum is a part of the BS BIO-MB curriculum which is geared towards students' exposure to the actual hospital working environment. This is a training that provides students the necessary skills needed as Physician Assistant and other allied health career upon graduation.

Preliminary skills in biomedical research is another major feature of this track. Students' research skills are developed by training the students in appropriate research methodologies. A research colloquium is part of the curriculum where students will showcase their research outputs.

# First Year

## First Semester

**BIO1101** – Organic Chemistry (Lecture)

**BIO1102** – Organic Chemistry (Laboratory)

**BIO1201** – General Botany (Lecture)

**BIO1202** – General Botany (Laboratory)

**GED0101** – College Academic Skills in English

**GED0103** – Mathematics in the Modern World

**GED0105** – Wika, Kultura at Lipunan

**NST0101** – National Service Training Program 1

**WRP0101** – Wellness and Recreation Program 1

**Total units: 22.5**

## Second Semester

**BIO1103** – Analytical Chemistry (Lecture)

**BIO1104** – Analytical Chemistry (Laboratory)

**BIO1203** – General Zoology (Lecture)

**BIO1204** – General Zoology (Laboratory)

**GED0108** – Retorika at Panitikan ng Pilipinas

**GED0109** – Speech Communication

**GED0110** – Understanding the Self

**NST0102** – National Service Training Program 2

**WRP0102** – Wellness and Recreation Program 2

**Total units: 22.5**

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# Second Year

## First Semester

- BIO1105** – Biochemistry (Lecture)
- BIO1106** – Biochemistry (Laboratory)
- BIO1205** – Systematics Biology (Lecture)
- BIO1206** – Systematics Biology (Laboratory)
- GED0104** – Science, Technology and Society
- GED0111** – Purposive Communication
- GED0112** – Scholarly Inquiry
- GED0113** – The Filipino in the Contemporary World
- WRP0103** – Wellness and Recreation Program 3

**Total units: 23.5**

## Second Semester

- BIO1225** – Introduction to Public Health
- BIO1226** – Introduction to Public Health (Related Learning Experience or RLE)
- BIO1207** – Cell Biology (Lecture)
- BIO1208** – Cell Biology (Laboratory)
- GED0106** – Art Appreciation
- GED0107** – Readings in Philippine History
- GED0114** – Applied Ethics in Contemporary Times
- GED0115** – Pag-aaral ng Wika at Kulturang Rehiyonal
- WRP0104** – Wellness and Recreation Program 4

**Total units: 23.5**

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# Third Year

## First Semester

**BIO1107** – Biophysics (Lecture)

**BIO1108** – Biophysics (Laboratory)

**BIO1109** – Biostatistics (Lecture)

**BIO1110** – Biostatistics (Laboratory)

**BIO1211** – Evolutionary Biology (Lecture)

**BIO1212** – Evolutionary Biology (Laboratory)

**BIO1213** – Human Anatomy and Physiology (Lecture)

**BIO1214** – Human Anatomy and Physiology (Laboratory)

**BIO1215** – Genetics (Lecture)

**BIO1216** – Genetics (Laboratory)

**WRP0105** – Wellness and Recreation Program 5

**Total units: 23.5**

## Second Semester

**BIO1217** – Developmental Biology (Plants and Animals) (Lecture)

**BIO1218** – Developmental Biology (Plants and Animals) (Laboratory)

**BIO1219** – Ecology (Lecture)

**BIO1220** – Ecology (Laboratory)

**BIO1221** – Microbiology (Lecture)

**BIO1222** – Microbiology (Laboratory)

**BIO1301** – Thesis I

**GED0102** – The Life and Works of Rizal

**WRP0106** – Wellness and Recreation Program 6

**Total units: 22.5**

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## Summer Term

**BIO1401** – Practicum

**Total units: 3**

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## Fourth Year

### First Semester

**BIO1302** – Thesis II

**BMB1101** – Medical Entomology (Lecture)

**BMB1102** – Medical Entomology (Laboratory)

**BMB1103** – Medical Microbiology (Lecture)

**BMB1104** – Medical Microbiology (Laboratory)

**BMB1105** – Medical Histology (Lecture)

**BMB1106** – Medical Histology (Laboratory)

**BMB1201** – Medical Informatics

**WRP0107** – Wellness and Recreation Program 7

**Total units: 21.5**

### Second Semester

**BMB1107** – Pharmacology (Lecture)

**BMB1108** – Pharmacology (Laboratory)

**BMB1109** – Radiation Biology (Lecture)

**BMB1110** – Radiation Biology (Laboratory)

**BMC1111** – Epidemiology

**BMC1107** – Pathology

**BMB1202** – Biotechnology

**BIO1303** – Thesis III

**WRP0108** – Wellness and Recreation Program 8

**Total units: 21.5**