

## **Biology**

The Faculty of Sciences at Haigazian University offers a program leading to a Bachelor of Science degree in Biology.

Students who graduate with a degree in Biology from Haigazian University will:

- Have a broad background in the fundamental concepts of biology.
- Have knowledge and experience in the basic methods, instrumentation and quantitative analytical skills used to conduct scientific investigations in biology.
- Demonstrate critical thinking and communication skills applicable to biological concepts.

- Be able to convey biological information in both written and oral forms.
- Be able to think ethically about biological research and its social impact.
- Use intellectual scientific knowledge to conduct scientific research in biology.
- Be prepared to sit for the MCAT exam for admission to Medical School.

All students admitted as Sophomores are eligible to continue in the program, provided they obtain a cumulative average of 70 in BIO 201. BIO 201 serves as university and major requirement.

To be eligible for graduation with the degree of Bachelor of Science in Biology, a student must satisfactorily complete the prescribed program of study with a minimum of 94 credit hours after the Freshman Science Class, or its equivalent, and attain a cumulative average of 70.

The department also offers a minor in Biology, which requires 22 credits: BIO 201, BIO 202, CHY 201, CHY 206, CHY 208, and BIO 204. Students in the Division of Natural Sciences cannot declare a minor in Biology. Students minoring in Biology should complete at least 13 credits of their minor at Haigazian University and maintain a minor average of at least 70. Students minoring in Biology should score a minimum grade of 70 in BIO 201. For more details regarding minors, kindly refer to the Minors section of the catalog.

## **General Education (31 cr.)**

Core requirements for all HU students are listed on page 58.

WRN 200 Work Ready Now 3 cr.

## **Core Requirements (47 cr.)**

BIO 201 General Biology I (taken as university requirement)	
BIO 202 General Biology II	4 cr.
BIO 204 Introductory Biochemistry (equivalent to MLS 209)	4 cr.
BIO 207 Genetics	4 cr.
BIO 293 Seminar	1 cr.

## **Two Courses out of the following Biology courses:**

BIO 206 Cell Biology	4 cr.
BIO 211 Plant Physiology	4 cr.
BIO 213 Ecology	4 cr.
BIO 226 Molecular Biology (equivalent to MLS 226)	4 cr.

## **Science Requirements**

CHY 201 Chemical Principles	3 cr.
CHY 206 Quantitative Analysis	4 cr.
CHY 211 Organic Chemistry I	3 cr.

CHY 212 Organic Chemistry II	3 cr.
CHY 213 Organic Chemistry Laboratory	2 cr.
PHY 204 Classical Physics for the Life Sciences	3 cr.
PHY 205 Modern Physics for the Life Sciences	3 cr.
PHY 206 Classical Physics Laboratory for the Life Sciences	1 cr.
PHY 207 Modern Physics Laboratory for the Life Sciences	1 cr.
MLS 225 Biostatistics	

### **Biology Electives**

**(15 cr.)**

BIO 203 Animal Physiology	3 cr.
BIO 209 Basic Histology (equivalent to MLS 211)	4 cr.
BIO 210 Embryology	4 cr.
BIO 214 Microbiology	4 cr.
BIO 218 Evolution	3 cr.
BIO 220 Immunology (equivalent to MLS 207)	3 cr.
BIO 221 Parasitology (equivalent to MLS 221)	4 cr.
BIO 224 Endocrinology (equivalent to MLS 203)	3 cr.
BIO 227 Virology (equivalent to MLS 227)	3 cr.
BIO 232 Clinical (Medical) Biochemistry (equivalent to MLS 202)	4 cr.
BIO 292 Special Topics in Biology	3 cr.