

The Curriculum for the MSc Degree Programme in Biochemistry

First Year		
Term 1	Term 2	Term 3
<ul style="list-style-type: none"> • Advanced Biochemistry of Carbohydrates and Lipids (Mandatory) • Methods in Biochemistry and Biophysics (Mandatory) • Biophysical Chemistry of Proteins and Nucleic Acids (Mandatory) 	<ul style="list-style-type: none"> • Advanced Molecular Biology (Mandatory) • Advanced Cellular Biology (Elective/Required) • Enzymology (Mandatory) 	<ul style="list-style-type: none"> • Regulation of Metabolism (Mandatory) • 2 Elective Courses (Table of Elective Courses, Page 3)
Second Year		
Term 1	Term 2	Term 3
<ul style="list-style-type: none"> • Seminar • Academic English • MSc Thesis Project in Biology 	<ul style="list-style-type: none"> • MSc Thesis Project in Biology 	<ul style="list-style-type: none"> • MSc Thesis Project in Biology

* Each course is worth 3 credit units.

** The contents of the table may be altered each term.

**The Curriculum for the MSc Degree Programme in Biochemistry
(Mandatory Courses)**

No.	Course Title	Credits
1	Enzymology	3
2	Regulation of Metabolism	3
3	Advanced Biochemistry of Carbohydrates and Lipids	3
4	Methods in Biochemistry and Biophysics	3
5	Biophysical Chemistry of Proteins and Nucleic Acids	3
6	Advanced Molecular Biology	3
7	Advanced Cellular Biology (Elective/Required)	3
8	Seminar	3
9	MSc Thesis Project	9
Total		33

**The Curriculum for the MSc Degree Programme in Biochemistry
(Elective Courses)**

No.	Course Title	Credits
1	Biochemistry of Neural Systems	3
2	Membrane Biochemistry	3
3	Carcinogenesis	3
4	Cell Signaling	3
5	Bioinformatics	3
6	Radiation Biophysics	3
7	Computational Biophysics	3
8	Biothermodynamics of Biomacromolecules	3
9	Programmed Cell Death	3
10	Methods in Biophysics	3
11	Cell Culture	3
12	Molecular Biophysics	3
13	Biophysical Chemistry	3
14	Theoretical Biophysics	3
15	Cellular Biophysics	3
16	Biochemistry and Pathogenesis of Oxidative Stress	3
17	Special Topics (Protein Folding)	3
18	Special Topics (Cancer Biology)	3

* Only in the **spring Term** (Elective/Required for students doing cell research projects)

- * **9 credits (3 courses)** are **required** from the above table.
- * The **English for Academic Purposes** course is elective/required for graduation (3 credits).
- * Total credits required for graduation (mandatory, elective and elective/required): **45 credits**