

**Bachelor of Science in Biochemistry**  
**School of Advanced Sciences**

<b>Programme Credit Structure</b>	<b>B.Sc.</b>	CHYXXX	Advanced biochemistry	3	2	4
<b>University Core Courses</b>	<b>30</b>	CHYXXX	Bioenergetics	3	2	4
<b>Programme Core Courses</b>	<b>60</b>	CHYXXX	Bio-entrepreneurship	3	0	3
<b>Programme Elective</b>	<b>24</b>	CHYXXX	Molecular Biology	3	2	4
<b>University Elective</b>	<b>09</b>	CHYXXX	Microbiology	3	2	4
		CHYXXX	Genetics	3	0	3
		CHYXXX	Immunology	3	2	4
<b>Total Graded Credit Requirement</b>	<b>123</b>	CHYXXX	Physiology	3	2	4

**Programme Electives (24 Credits)****Minor 1 (Biotechnology)**

<b>University Core [30 Credits]</b>		<b>T</b>	<b>P</b>	<b>C</b>			
<b>Course Code</b>	<b>Course Title</b>						
XXXXXX	Internship/CO-OP/ Design Project	0	0	4	CHYXXXX	Bioinformatics	3 2 4
XXXXXX	Seminar Presentation	0	0	4	CHYXXXX	Advanced Genetics	4 0 4
STS2003	Aptitude And Reasoning Skills	3	0	3	CHYXXXX	Advanced cell biology	3 2 4
MGT1001	Ethics And Values	2	0	2	CHYXXXX	Endocrinology	4 0 4
STS2009	Arithmetic Problem-Solving Skills	0	2	1	CHYXXXX	Introduction to biotechnology	4 0 4
ENG1014	Enhancing English Communication Skills	3	0	3	CHYXXXX	Neurobiology	4 0 4
STS2003	Aptitude And Reasoning Skills	3	0	3	CHYXXXX	Enzyme technology	4 0 4
STS2008	Numerical Ability and Cognitive Intelligence	1	0	1	CHYXXXX	Clinical biochemistry	4 0 4
STS1009	Introduction to Quantitative, Logical and Verbal Ability	1	0	1	CHYXXXX	Biophysical chemistry	4 0 4
MGT1001	ETHICS AND VALUES	2	0	2	CHYXXXX	Analytical Techniques for biosciences	3 2 4
CHYXXX	Environmental Studies	2	0	2			
STS1004	Introduction to Problem Solving	0	2	1			
ENG1011	Foundation On Structures of English Language	3	0	3			

**Minor 2 (Artificial Intelligence)**

					CHYXXXX	Introduction to AI and ML	3 2 4
					CHYXXXX	AI in drug discovery and development	3 2 4
					CHYXXXX	Computer vision	3 2 4
					CHYXXXX	Introduction to LLM and agentic AI in biomedicine	3 2 4
					CHYXXXX	Artificial intelligence for bioinformatics	4 0 4
					CHYXXXX	Biostatistics	3 0 3
					CHYXXXX	Computer Aided Drug Design	3 2 4

**Programme Core (60 Credits)**

CHYXXX	Fundamentals Of Biochemistry-1	3	2	4
CHYXXX	Introduction To Classical Biology and Cell Biology	4	0	4
CHYXXX	Python Programming for Biosciences	3	2	4
CHYXXX	Biosafety and Bioethics	2	0	2
CHYXXX	Biophysical Chemistry	3	2	4
CHYXXX	Fundamentals of biochemistry-2	3	2	4
CHYXXX	Molecules of life	3	2	4
CHYXXX	Nutritional biochemistry	4	0	4

**University Electives (9 Credits)**

ENG1014	Enhancing English Communication Skills	3	0	3
MGT1003	Fundamentals of Marketing	3	0	3
CHYXXX	Computational Biology	2	2	3
MGT1003	Fundamentals of Marketing	3	0	3
MGTXXX	Accounting and Finance	2	0	2
MGTXXX	Fundamentals of Supply Chain Analytics	2	0	2