

SUMMARY OF COURSES OFFERED

PRINCIPAL SUBJECT AREA

MOLECULAR BIOLOGY AND BIOTECHNOLOGY

100 LEVEL - MOLECULAR BIOLOGY AND BIOTECHNOLOGY					
Course Number	Course Title	No. of credits	Prerequisites	Compulsory for	
				General Degree	Special Degree
BL 101	Basic Biology	2		√	√
CH 101	Principles of Chemistry I	3		√	√
CH 102	Principles of Chemistry II	3	CH 101	√	√
CH 108	Elementary Chemistry Laboratory I	1		√	√
CH 109	Elementary Chemistry Laboratory II	1	CH 108	√	√
	Total	10			

200 LEVEL - MOLECULAR BIOLOGY AND BIOTECHNOLOGY					
Course Number	Course Title	No. of credits	Prerequisites	Compulsory for	
				General Degree	Special Degree
MB 201	Biological Chemistry	3	BL 101, CH 101, CH 102	√	√
MB 206	Principles of Genetics	3	BL 101		√
MB 211	Cell and Tissue Culture	2	BL 101		
MB 216 †	General Microbiology	1	BL 101	√	√
MB 221	Enzymology	2	BL 101, CH 101, CH 102	√	√
MB 226	Molecular Genetics	3	BL 101, CH 101, CH 102	√	√
BT 201	Plant Diversity I	2			
BT 206	Plant Physiology	2			
CH 221	Organic Chemistry I	2	CH 101, CH 102		
CH 231	Physical Chemistry I	2	CH 101, CH 102		√
CH 232	Molecular Properties, Molecular Spectroscopy and Spectroscopic Instrumentation	1	CH 231		
PH 261	Medical Physics	2			
ST 202	Applied Statistics	2			
ZL 201	Animal Embryology	2			
	Total	29			

300 LEVEL - MOLECULAR BIOLOGY AND BIOTECHNOLOGY					
Course Number	Course Title	No. of credits	Prerequisites	Compulsory for	
				General Degree	Special Degree
MB 301	Biochemistry and Molecular Biology Laboratory	2	MB 201, MB 226	√	√
MB 306	Recombinant DNA Technology	3	MB 201, MB 226	√	√
MB 311	Molecular Cell Biology	3	MB 201		√
MB 316	Molecular Immunology	2	BL 101		
MB 321	Biotechnology I	2	MB 226, MB 306	√	√
MB 326	Bioinformatics	3	MB 226		√
BT 302	Advanced Microbiology	2			
BT 304	Plant Pathology	2			
BT 309	Biodiversity and Conservation Management	2			
BT 311	Plant Reproductive Biology and Plant Breeding	2			
CH 341	Analytical Chemistry	3	CH 231		√
CH 361	Environmental Chemistry	3	CH 211, CH 221		
ZL 302	Comparative Anatomy & Animal Physiology	2			
ZL 303	General Entomology	2			
ZL 312	Developmental Biology	2	ZL 201		
	Total	35			

400 LEVEL - MOLECULAR BIOLOGY AND BIOTECHNOLOGY					
Course Number	Course Title	No. of credits	Prerequisites	Compulsory for	
				General Degree	Special Degree
MB 401	Molecular Biology of Plant and Animal Diseases	2	MB 201, MB 226		√
MB 406	Evolution and Molecular Systematics	2	MB 206, MB 226		
MB 411	Biotechnology II	2	MB 321		√
MB 416	Environmental Biotechnology	2	MB 226, MB 321		√
MB 421	Fermentation Technology	2	CH 101, CH 102, MB 321		
MB 426	DNA and Forensic Medicine Laboratory	1	MB 226		√
MB 431††	Molecular Entomology	2	MB 226, ZL 303		
MB 436	Molecular Virology	2	MB 226		
MB 441	Special Topics in Cell and Molecular Biology	3	MB 311		
BT 401	Nitrogen Fixation	3			
BT 402	Rhizobiology	3	BT 302		
ZL 403	Applied Entomology	3			
ZL 408	Inland Fisheries and Aquaculture	3			
MB 471	Proposal Writing	1			√
MB 490	Independent Study	1			
MB 495	Seminar	1			√
MB 499	Research Project	6			√
	Total	36			

† Available to students who have not offered biology in GCE (A/L).

†† Same as ZL 413