

SUMMARY OF COURSES OFFERED

PRINCIPAL SUBJECT AREA

BIOLOGY

At the 100 Level, Biology is offered as principal subject areas, Biology* (8 credits) and Biology** (16 credits) jointly by the Departments of Botany, Molecular Biology & Biotechnology and Zoology. Both Biological and Physical Science students can offer these subjects.

100 LEVEL - BIOLOGY (offered jointly by the Departments of Botany and Zoology).						
Course Number	Course Title	No. of credits	Biology*	Biology**	Compulsory for	
					General Degree	Special Degree
BL 101	Basic Biology	2	√	√		
BL 102	Plant & Animal Form & Function	2	√	√		
BL 103	Basic Ecology	2	√	√		
BL 107	Basic Microbiology	2	√	√		
BL 115	Biomolecules	2		√		
BL 116	Introductory Environmental Biology	2		√		
BL 117	Biotic Interactions	2		√		
BL 118	Introductory Evolutionary Biology	2		√		
	<i>Total</i>		8	16		

Selection for the Special Degree in Biology

The Special Degree program in Biology will be offered jointly by the Departments of Botany, Molecular Biology & Biotechnology and Zoology to undergraduates in the Biological Science stream who have successfully completed Biology* or Biology** program at 100 level and the stipulated course units from Botany, Molecular Biology & Biotechnology and Zoology at 200 level.

200 LEVEL – BIOLOGY				
Course Number	Course Title	No. of credits	Prerequisites	Compulsory for Special Degree
BT 201	Plant Diversity I	2		√
BT 202	Plant Diversity II	2		√
BT 203	Vegetation Dynamics & Measurements	2		
BT 205	Angiosperm Morphology & Anatomy	2		
BT 206	Plant Physiology	2		
BT 207	Plant Biochemistry	2		
MB 201	Biological Chemistry	3	BL 101, CH 101, CH 102	√
MB 206	Principles of Genetics	3	BL 101	√
MB 226	Molecular Genetics	3	BL 101, CH 101, CH 102	√
ZL 201	Animal Embryology	2		
ZL 206	Invertebrate Diversity	3		√
ZL 215	Zoogeography & Sri Lankan Fauna	2		
ZL 216	Vertebrate Diversity	3		√
ST 202 / BT 209 †	Applied Statistics / Biostatistics †	2		√
	<i>Total</i>	33		

† BT 209 is equivalent to ST 202.

The students for Biology Special degree will be selected from among those who have successfully completed 100 and 200 level courses.

Selection of Course Units for the Special Degree in Biology

For students who are selected for the Special Degree in Biology, specified course units from Botany, Molecular Biology & Biotechnology and Zoology at 300/400 levels, given in the table will be considered as one principal subject area - **Biology**.

300 AND 400 LEVEL BIOLOGY				
Course Number	Course Title	No. of credits	Prerequisites	Compulsory for Special Degree
BT 301	Analytical Methods	2		
BT 302/ BT 303	Advanced Microbiology/ Soil fertility & Management	2		
BT 308	Plant Systematics	2		
BT309/ BT 310	Biodiversity Conservation & Management/Ecosystems of Sri Lanka: Ecology & Conservation	2		
BT 311	Plant Reproductive Biology & Plant Breeding	2	BT 307	
MB 306	Recombinant DNA Technology	3	MB 201, MB 226	
MB 311	Molecular Cell Biology	3	MB 201	
MB 321	Biotechnology I	2	MB 226, MB 306	
MB 326	Bioinformatics	3	MB 226	
ZL 301	Functional Histology	2		
ZL 302	Comparative Anatomy & Animal Physiology	2		
ZL 303/ ZL 304	General Entomology/ Biology of Parasites	2		
ZL 307	Fish Biology	2		
ZL 318/ ZL 319	Amphibian & Reptilian Biology / Avian & Mammalian Biology	2		
	Total	31		
BT 407	Advanced Plant Systematics	2	BT 308	
BT 409	Dynamic Plant Ecology	3	BT 309, BT 310	
MB 406	Evolution & Molecular Systematics	2	MB 206, MB 226	
MB 411	Biotechnology II	2	MB 321	
ZL 401	Taxonomy, Field sampling, Biostatistics	2		
ZL 403/ ZL 412	Applied Entomology / Biodiversity & Conservation Biology	3		
BL 401	Evolutionary Biology	2		
BL 402	Scientific Writing & Ethics	1		
BL 403 †	Independent Study	1		
BL 404	Research Project	6		√
	Total	24		

† Equivalent to BT 414

When Biology is selected as the subject of specialization (Requirements to pass the special degree – item 17 of page 07 of the Faculty Handbook), a minimum total of 77 credits may be earned over a period of four years. The balance credit requirement to make up a minimum total of 105 credits from the Principal Subject Areas may be selected from any Principal Subject Area subject to the approval of the respective Department of Study.