

## BS 04 Years & Associate Degree in Zoology

Course Title	Course Code	Course Type	Credit Hour
Semester 1			
Functional English	GENG-101	General	3
Civics and Community Engagement	GCCE-101	General	2
Islamic Studies / Ethics (for Non-Muslims)	GISL-101 / GETH-101	General	2
Lab. Cell Biology	ZOOL-104	Major	1
Cell Biology	ZOOL-103	Major	2
Fehm-e-Quran	HQ-001N	Compulsory	0
Animal Diversity-I	ZOOL-101	Major	2
Lab. Animal Diversity-I	ZOOL-102	Major	1
Environmental Biology (NS)	NZ-116	General	2
Lab. Environmental Biology (NS)	NZ-117	General	1
			<b>Total Credit Hours 16</b>
Semester 2			
Introduction to Health and Physical Education (AH)	APED-111	General	2
Quantitative Reasoning (I)	GQR-101	General	3
Entrepreneurship	GENT-101	General	2
Ideology and Constitution of Pakistan	GICP-101	General	2
Lab. Biological Techniques	ZOOL-108	Major	2
Biological Techniques	ZOOL-107	Major	1
Tarjuma-e-Quran	HQ-002	Compulsory	1
Animal Diversity-II	ZOOL-105	Major	2
Lab. Animal Diversity-II	ZOOL-106	Major	1
			<b>Total Credit Hours 16</b>
Semester 3			
Applications of Information and Communication Technologies	GICT-201	General	3
Expository Writing	GENG-201	General	3
Economic Zoology	ZOOL-205	Major	2
Lab. Animal Form & Function-I	ZOOL-204	Major	1
Animal Form & Function-I	ZOOL-203	Major	2
Tarjuma-e-Quran	HQ-003	Compulsory	0
Animal Diversity-III	ZOOL-201	Major	2
Lab. Animal Diversity-III	ZOOL-202	Major	1
Lab. Economic Zoology	ZOOL-206	Major	1
Pakistan Studies.	GPST-201	General	2
			<b>Total Credit Hours 17</b>
Semester 4			
<del>GEN(SS)</del>		General	2
Quantitative Reasoning (II)	GQR-202	General	3
Ecology	ZOOL-207	Major	2
Ecology (Lab)	ZOOL207L	Major	1
Animal Form And Function-II	ZOOL-209	Major	2
Animal Form And Function-II (Lab)	ZOOL209L	Major	1
Animal Behavior	ZOOL-211	Major	2
Animal Behavior (Lab)	ZOOL211L	Major	1
Biochemistry-I	ZOOL-213	Major	2
Biochemistry-I (Lab)	ZOOL213L	Major	1
Tarjuma-e-Quran	HQ-004	Compulsory	1
			<b>Total Credit Hours 18</b>
Semester 5			
Lab. Entomology	ZOOL-302	Interdisciplinary	1
Entomology	ZOOL-301	Interdisciplinary	2
major		Major	3
Genetics-I	ZOOL-309	Major	2
Lab. Physiology-I	ZOOL-308	Major	1
Tarjuma-e-Quran	HQ-005	Compulsory	0
Environmental Biology	ZOOL-303	Interdisciplinary	2
Lab. Environmental Biology	ZOOL-304	Interdisciplinary	1
Biochemistry-II	ZOOL-305	Major	2
Lab. Biochemistry-II	ZOOL-306	Major	1
Physiology-I	ZOOL-307	Major	2
Lab. Genetics-I	ZOOL-310	Major	1
Entomology	ZOOL-301	Interdisciplinary	2
Lab. Entomology	ZOOL-302	Interdisciplinary	1
			<b>Total Credit Hours 21</b>
Semester 6			
Lab. General Microbiology	ZOOL-312	Interdisciplinary	1
General Microbiology	ZOOL-311	Interdisciplinary	2
Genetics-II	ZOOL-316	Major	2
Lab. Developmental Biology	ZOOL-315	Major	1
Developmental Biology	ZOOL-314	Major	2
Tarjuma-e-Quran	HQ-006	Compulsory	1
Research Methodology	ZOOL-313	Interdisciplinary	3
Lab. Genetics-II	ZOOL-317	Major	1
Wildlife	ZOOL-318	Major	2
Lab. Wildlife	ZOOL-319	Major	1
Physiology-II	ZOOL-320	Major	2

Lab. Physiology-II	ZOOL-321	Major	<u>1</u>
			<b>Total Credit Hours 19</b>
<b>Semester 7</b>			
Fieldwork / Intership	ZOOL-401	Major	<u>3</u>
Lab. Principles of Systematics	ZOOL-405	Major	<u>1</u>
Principles of Systematics	ZOOL-404	Major	<u>2</u>
Lab. Analysis of Development	ZOOL-403	Major	<u>1</u>
Analysis of Development	ZOOL-402	Major	<u>2</u>
Tarjuma-e-Quran	HQ-007	Compulsory	<u>0</u>
Principles of Paleontology	ZOOL-406	Major	<u>2</u>
Lab. Principles of Paleontology	ZOOL-407	Major	<u>1</u>
Molecular Biology	ZOOL-408	Major	<u>2</u>
Lab. Molecular Biology	ZOOL-409	Major	<u>1</u>
Industrial Biotechnology	ZOOL-410	Major	<u>2</u>
Lab. Industrial Biotechnology	ZOOL-411	Major	<u>1</u>
			<b>Total Credit Hours 18</b>
<b>Semester 8</b>			
Capstone Project	ZOOL-412	Major	<u>3</u>
Lab. Applied Fisheries	ZOOL-	Major	<u>1</u>
Applied Fisheries	ZOOL-415	Major	<u>2</u>
Lab. Bioinformatics	ZOOL-414	Major	<u>2</u>
Bioinformatics	ZOOL-413	Major	<u>1</u>
Tarjuma-e-Quran	HQ-008	Compulsory	<u>1</u>
Evolution	ZOOL-417	Major	<u>2</u>
Lab. Evolution	ZOOL-418	Major	<u>1</u>
Zoogeography	ZOOL-419	Major	<u>2</u>
Lab. Zoogeography	ZOOL-420	Major	<u>1</u>
			<b>Total Credit Hours 16</b>
Signature			