

Curriculum BS Genetics

Course Code	Semester-1	Cr. Hrs
ENG 101	English - I	3(3+0)
GEN 101	Cell Biology	3(2+1)
MTH 103	Mathematics - I	3(3+0)
GEN 102	Introduction to Computing	2(1+1)
CH 105	Elective -I** (Chemistry)	3(2+1)
BOT 106	Elective - II** (Botany)	3(2+1)

Course Code	Semester-2	Cr. Hrs
ENG 151	English - II	3(3+0)
GEN152	Principles of Genetics	4(3+1)
GEN 153	Elective -II** (Biotechnology)	3(2+1)
MTH 151	Mathematics - II	3(3+0)
SOC 106	1 course of Social Sci.* (sociology)	2(2+0)
ZOOL 156	Elective -I** (Zoology)	3(2+1)

Course Code	Semester-3	Cr. Hrs
GEN 201	Cytogenetics	3(2+1)
BIOT 201	Elective -I** (Microbiology)	3(2+1)
GEN 202	Principles of Biochemistry	4(3+1)
ENG 203	English - III	3(3+0)
PS 204	Pakistan Studies	2(2+0)
ZOOL 206	Elective -II** (Physiology)	3(2+1)

Course Code	Semester-4	Cr. Hrs
GEN 251	Molecular Biology	3(2+1)
GEN 252	Biometry – I	3(2+1)
ENG 251	English (Communication Skills)	3(3+0)
IS 254	Islamic Studies/Ethics	2(2+0)
BIOT 203	Elective-I** (Biochemistry)	3(2+1)
	Elective -II**	

Course Code	Semester-5	Cr. Hrs
MIC 203	Microbial Genetics	4(3+1)
GEN 301	Genetics and Evolution	4(4+0)
GEN 302	Molecular Genetics	4(3+1)
GEN 304	Population Genetics	3(2+1)
GEN 305	Principles of Breeding	3(2+1)

Course Code	Semester-6	Cr. Hrs
GEN 351	Physiological Genetics	4(3+1)
GEN 352	Genetic Engineering	4(3+1)
GEN 353	Human Genetics	3(2+1)
GEN 354	Biometry – II	4(3+1)
GEN 355	Bioinformatics	3(2+1)