

Scheme of Studies

BS Honors in Botany

**8 Semesters / 4 years Degree Program
for the year 2016 and onwards**

Department of Botany

BS (HONS) BOTANY

Semester 1

Course Code	Course Title	Credit Hours
BOT-301	Diversity of Plants	4(3-1)
ENG-321	English –I (Functional English) , (EAP) English for Academic Purpose	3(3-0)
PST-321	Pakistan Studies	2(2-0)
MTH-323	Mathematics (Math/Stat-I)	3(3-0)
ZOL-301	General-I (Zoology-I Principals in animal life-I)	3(2-1)
CHM-301	General-II (Physical Chemistry-I)	3(2-1)
Total		18

Semester 2

Course Code	Course Title	Credit Hours
BOT-302	Systematic, Anatomy and Development	4(3-1)
ENG-322	English –II (Reading, Writing, Speaking and Listening Skills)	3(3-0)
ISL-322	Islamic Studies	2(2-0)
ZOL-302	General-III (Zoology-I Principals in animal life-II)	3(2-1)
CHM-302	General-IV (Inorganic Chemistry-II)	3(2-1)
BNB-322	Optional (Bioinformatics)	3(2-1)
Total		18

Semester 3

Course Code	Course Title	Credit Hours
BOT -401	Cell Biology, Genetics and Evolution	4(3-1)
ENG-421	English –III (Communication Skills)	3(3-0)
CSI-421	Introduction to Computer	3(3-0)
ZOL-401	General-V(Zoology-III Animal diversity-1)	3(2-1)
CHM-401	General- VI (Organic Chemistry 1)	3(2-1)
Total		16

Semester 4

Course Code	Course Title	Credit Hours
BOT -402	Plant Physiology and Ecology	4(3-1)
BOT-404	Biodiversity and Conservation	4(3-1)
STA-354	Applied Statistics Theory	3(2-1)
ZOL -402	General-VII(Zoology-IV Animal diversity-2)	3(2-1)
CHM -402	General- VIII (Chemistry special topics)	3(2-1)
Total		17

Semester 5

Course Code	Course Title	Credit Hours
BOT -501	Bacteriology and Virology	3(2-1)
BOT -503	Phycology and Bryology	3(2-1)
BOT -505	Mycology and Plant Pathology	3(2-1)
BOT -507	Diversity of Vascular Plants	3(2-1)
BOT -509	Plant Systematics	3(2-1)
BOT -511	Anatomy of Vascular Plants	3(2-1)
Total		18

Semester 6

Course Code	Course Title	Credit Hours
BOT -502	Genetics-I	3(2-1)
BOT -504	Plant Biochemistry-I	3(2-1)
BOT -506	Plant Ecology-I	3(2-1)
BOT -508	Plant Physiology-I	3(2-1)
BOT -510	Molecular Biology	3(2-1)
POL-522	International Relations	3(3-0)
Total		18

Semester 7

Course Code	Course Title	Credit Hours
BOT -601	Plant Biochemistry-II	3(2-1)
BOT -603	Plant Ecology-II	3(2-1)
BOT -605	Plant Physiology-II	3(2-1)
BOT -607	Genetics-II	3(2-1)
ENG -601	EFE (English for Employment)	3(3-0)
BOT-609	Lab Techniques	2(1-1)
Total		17

Semester 8

Course Code	Course Title	Credit Hours
BOT -602	Environmental Biology	3(2-1)
BOT -604	Special Paper* (Phytohormones)	3(2-1)
BOT -606	Special Paper* (Plant Metabolism)	3(2-1)
BOT -608	Special Paper* (Plant Tissue Culture)	3(2-1)
BOT -610	Special Paper* (Plant Stress Physiology)	3(2-1)
BOT -612	Special Paper* (Nitrogen Assimilation & Metabolism)	3(3-1)
BOT -630	Thesis	6(0-6)
Total		12

*The student offered research will opt for one special paper and completion of research thesis while the remaining students will opt for three special papers.