

B.Sc. (Hons.) Agriculture (Plant Breeding and Genetics)

Course Title	Course Code	Course Type	Credit Hour
Semester 1			
<u>GEN(NS)</u>		General	<u>3</u>
Functional English	GENG-101	General	<u>3</u>
Civics and Community Engagement	GCCE-101	General	<u>2</u>
Islamic Studies / Ethics (for Non-Muslims)	GISL-101 / GETH-101	General	<u>2</u>
Introduction to Soil Science	SS-101	Major	<u>3</u>
Basic Agriculture	AGR-101	Major	<u>3</u>
Tarjuma-e-Quran	HQ-001	Compulsory	<u>0</u>
			Total Credit Hours 16
Semester 2			
<u>GEN(AH)</u>		General	<u>2</u>
Quantitative Reasoning (I)	GQR-101	General	<u>3</u>
Entrepreneurship	GENT-101	General	<u>2</u>
Ideology and Constitution of Pakistan	GICP-101	General	<u>2</u>
Introductory Horticulture	HORT-102	Major	<u>3</u>
Introductory Food Technology	FST-102	Major	<u>3</u>
Tarjuma-e-Quran	HQ-002	Compulsory	<u>1</u>
			Total Credit Hours 16
Semester 3			
Applications of Information and Communication Technologies	GICT-201	General	<u>3</u>
Expository Writing	GENG-201	General	<u>3</u>
ELEMENTARY GENETICS & PLANT BREEDING	PBG-201	Major	<u>3</u>
FUNDAMENTALS OF FORESTRY, RANGELAND AND WILDLIFE MANAGEMENT	FRW-201	Major	<u>3</u>
Introduction to Animal Husbandry	AH-201	Major	<u>3</u>
Tarjuma-e-Quran	HQ-003	Compulsory	<u>0</u>
			Total Credit Hours 15
Semester 4			
<u>GEN(SS)</u>		General	<u>2</u>
Quantitative Reasoning (II)	GQR-202	General	<u>3</u>
INTRODUCTORY PLANT PATHOLOGY	PP-202	Major	<u>3</u>
GENERAL ENTOMOLOGY	ENT-202	Major	<u>3</u>
INTRODUCTION TO AGRICULTURE EXTENSION	AEE-202	Major	<u>3</u>
Tarjuma-e-Quran	HQ-004	Compulsory	<u>1</u>
			Total Credit Hours 15
Semester 5			
Plant Molecular Breeding	PBG-309	Major	<u>3</u>
Breeding for Climate Change Resilient Crops	PBG-307	Major	<u>3</u>
Modern Techniques in Plant Breeding	PBG-305	Major	<u>3</u>
Breeding Field Crops	PBG-303	Major	<u>3</u>
Principles of Genetics	PBG-301	Major	<u>3</u>
Tarjuma-e-Quran	HQ-005	Compulsory	<u>0</u>
Morphology and Reproductive Systems of Crops	IDC-301	Interdisciplinary	<u>3</u>
			Total Credit Hours 18
Semester 6			
Breeding Cereal Crops	PBG-310	Major	<u>3</u>
Molecular Genetics	PBG-308	Major	<u>3</u>
Biodiversity and Plant Genetic Resources	PBG-306	Major	<u>3</u>
Breeding Sugar Crops	PBG-304	Major	<u>3</u>
Breeding Fibre Crops	PBG-302	Major	<u>3</u>
Tarjuma-e-Quran	HQ-006	Compulsory	<u>1</u>
Introduction to Plant Tissue Culture	IDC-302	Interdisciplinary	<u>3</u>
			Total Credit Hours 19
Semester 7			
Intellectual Property Rights in Crop Varieties	PBG-409	Major	<u>3</u>
Breeding Fodder and Forage crops	PBG-407	Major	<u>3</u>
Breeding Vegetable Crops	PBG-405	Major	<u>3</u>
Breeding Pulse Crops	PBG-403	Major	<u>3</u>
Breeding Oilseed Crops	PBG-401	Major	<u>3</u>
Tarjuma-e-Quran	HQ-007	Compulsory	<u>0</u>
Introductory Bioinformatics	IDC-401	Interdisciplinary	<u>3</u>
			Total Credit Hours 18
Semester 8			
Major		Major	
Scientific Writing	IDC-402	Interdisciplinary	<u>3</u>
Capstone Project	PBG-406	Major	<u>3</u>
Seminar	PBG-404	Major	<u>1</u>
Internship /Study Project	PBG-402	Major	<u>5</u>
Tarjuma-e-Quran	HQ-008	Compulsory	<u>1</u>
			Total Credit Hours 13

